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February - March 2011

HD camera systems

Time to trade up says CR Kennedy

Rugby World Cup

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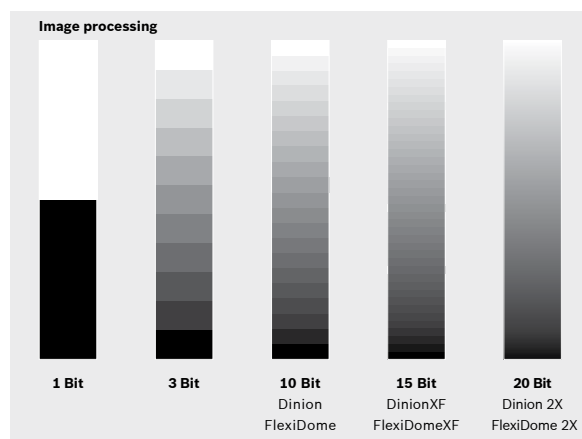
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Best people, top products

CR Kennedy has been servicing the New Zealand security industry since the 1980s
Sharvil Patel tells Steve Hart why the firm is held in such high regard

When it comes to CCTV imaging products, CR Kennedy is at the forefront in New Zealand with its range of products from some of the world's largest manufacturers – LG, Pentax, Dallmeier and Videotec are among its arsenal of products.

But while the range of products and services it offers are second to none, it is the quality of CR Kennedy's people that make the real difference, says Sharvil Patel who works in the firm's CCTV division as its technical & sales support specialist.

"Our staff are all carefully selected during the recruitment process and then given constant training in new products," he says. "The firm didn't let anyone go during the recession as the company has a strong commitment to its people."



Sharvil Patel Sales & Technical Support, Patrick Baker Account Manager, Michael Deason Admin Support

The market is now wide open as companies start switching from standard definition analogue installations to HD digital set ups that capture pin sharp pictures. It has only been in the last year or two that HD has really become affordable, we are in a whole new era of security technology with high definition TV.

We are a family company that is run by descendants of the founder."

Sharvil says all new members of staff go through rigorous product and IT training. In addition, many members of the team regularly spend time with manufacturers abroad so they can be certified to operate, install and maintain the equipment it sells.

"It is essential that our staff are highly knowledgeable and possess all the skills to support the product range from the manufacturers we represent," he says.

The firm is always careful to bring products into New Zealand that meet the demands of the local market. That means firms requiring security products such as HD cameras, digital recorders and systems get the reliability they need at the best prices.

"Whether we are supplying the low end, middle end or top end of the various markets in New Zealand, there is something for every budget," says Sharvil. "We ensure the products we market have all the right features our customers need or are looking for – and that includes any necessary certifications that may be required for the product. This helps ensure products are supported by local government bodies and institutions such as banks."

The days of cameras being used as a deterrent – capturing soft images that lack key facial details – are over with the introduction of HD cameras and recorders.

"The market is now wide open as companies start switching from standard definition analogue installations to

HD digital set ups that capture pin sharp pictures,” says Sharvil. “It has only been in the last year or two that HD has really become affordable. We are in a whole new era of security technology with high definition TV.

“The new cameras and recording platforms deliver phenomenal picture clarity when compared to the analogue technology and so will help ensure that people featured in security footage are identifiable.”

It comes as no surprise then that CR Kennedy has placed complex digital camera and recording installations in casinos, retail centres and banks across New Zealand and Australia – some of which use hundreds of cameras.

Sharvil says that integrating security camera operations into company IT networks is also a growing trend, particularly as digital recorders have taken over from analogue platforms.

He also says staff at CR Kennedy are excited by a new range of products from Dallmeier – these include whole solutions for clients that include HD cameras, HD pan, tilt and zoom (PTZ) cameras, hybrid digital video recorders, pure NVRs and state-of-the-art video management systems.

In addition we are also exclusive distributors in Australasia for LG security products which include cameras, recorders, IP CCTV and software packages.

“All this technology comes at a very competitive price,” says Sharvil. “High definition digital gear was extremely expensive when it was introduced two or three years ago, but now manufacturers are quite competitive – that has driven the price down and the quality up. “In particular, the Dallmeier products we are offering are very keenly priced and are highly suitable to the New Zealand market.”

Sharvil says it is currently supplying four new HD cameras from Dallmeier. These include two full body cameras, one



Dallmeier - DDF4900 HDV

of which is the DF4500 that features a 2-megapixel sensor and captures footage at 720p (HD ready) and there is the higher-end DF4900 that has a 3-megapixel sensor for even clearer pictures and delivers crisp full HD 1080p footage.

“In particular, the Dallmeier products we are offering are very keenly priced and are highly suitable to the New Zealand market.”

“The DDF4900 is another new product that will have a big market in New Zealand,” says Sharvil. “It is a high definition, 3-megapixel IP67 rated vandal-resistant dome that provides real-time video in a compact and discrete enclosure with an integrated camera/lens combination. Complementing the cameras is a new breed of HD recorders, encoders and decoders.”

CR Kennedy’s Managing Director for New Zealand is Gerard Emery. He says one of the reasons the company is proud to exclusively market Dallmeier surveillance products is that they come with a solid three-year warranty.

“We have always had a strong partnership with Dallmeier and consequently our staff are highly trained when it comes to these exceptional products,” he says. “All our staff in the security product division are certified to install and maintain this and other equipment.



Managing Director - Gerard Emery

We are also strongly supported by our colleagues in Australia and at Dallmeier – there is a huge knowledge base to draw on should we need to.

“Depending on what may have happened to a given product we offer a repair or replacement policy – there should



Dallmeier - DMS240

be little to no down-time when it comes to security. CR Kennedy is a strong brand and we have more than 250 staff to look after our valued customers.”

Gerard also says the firm is preparing to make some “very big announcements within the next six months.” He says that while he can’t say too much more right now, he is promising a few “very positive surprises in the near future.”

Apart from Dallmeier, CR Kennedy supplies security products from companies such as LG, Samsung Techwin, Wattec, Pentax, Avermedia, Pinetron, Ourten, Videocomm and Videotec.

CR Kennedy is also preparing to run a set of training seminars to promote the new products from Dallmeier. The events will be held at CR Kennedy’s Auckland showroom on February 14 and 15 and in Christchurch on February 17 and 18. Sharvil says:

“The workshops are by invitation so we hope people will RSVP so we can confirm numbers. However, we would be pleased to hear from any security professional who would like to attend.”

For more information about CR Kennedy’s range of security products or to attend its Dallmeier seminars in either Auckland or Christchurch, call CRKNZ CCTV division on Phone: 09 276 3271 or Email cctv@crknz.co.nz

Company Overview

Founded in 1934 by Clement Robertson Kennedy, CR Kennedy began by importing photographic and optical products from Germany and Italy into Australia.

The company’s close relationship with Pentax began in 1954 when it became the distributors for Asahi Pentax. In fact, the firm is the oldest distributors in the world for Pentax lenses, cameras and CCTV.

In 1969 it entered the surveying market when CR Kennedy was appointed to handle the Fuji agency (which later became Pentax).

The firm became distributors for top-end camera maker Hasselblad in 1980 and a year later launched its medical division – selling a complete range of Pentax flexible fibre optic and video endoscopes.

It entered the security industry in 1984 and has since earned a reputation as a major supplier of CCTV equipment to both the New Zealand and Australian markets.

In 1986, the firm established CR Kennedy (NZ) in Auckland to take

advantage of the rapidly expanding consumer and CCTV market. With the combined purchasing power of its Australian operation it has made substantial inroads – New Zealand customers now enjoy high levels of value and service when it comes to professional security products.

CR Kennedy was among the first firms to sell the Dallmeier digital recorder to the security industry in 1992 and is now a key distributor for the firm holding exclusive territories in New Zealand and Australia.

In 2001 the company underwent a huge expansion and was subsequently appointed sole and exclusive distributors in Australia for Leica Geosystems.

CR Kennedy remains a privately owned family firm and currently employs more than 250 staff. It has offices in Auckland, Melbourne, Adelaide, Perth, Brisbane, Sydney and Cairns as well as CCTV exclusive branches in Hong Kong, Macau and Singapore to cater for the casinos in partnership with Dallmeier.





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Keeping ahead of casino cheats

Casinos have all the ingredients to make a tough security challenge, with a mix of money, gaming and large numbers of people always providing a temptation to opportunists.

Patrons must also be screened for age and certain specific individuals barred from entry. On top of all that within a complex of entertainment centres, restaurants, hotels and conference centres, assets and people need to be kept safe.

It makes sense then, for casinos' security management to get together every year or so to hold a conference where they can share their experiences and update their knowledge with others working in the same area.

This time it was Christchurch Casino's turn to host the two day 23rd Annual Casino Risk Management Conference. It's a conference with an international flavour, says Christchurch Casino Security and Surveillance Manager, Darren Henderson, who was tasked with the organisation of the event.

"All the New Zealand and Australian casinos were represented on a security or a surveillance level and we had managers from Macau, Singapore and London visiting us as well," says Henderson.

New Zealand government regulators also attended.

Henderson says the casino security is about protecting the integrity of casino business.

"It's about maintaining the safe and secure environment that the casinos are known for. We have thousands of people coming in daily for fun and entertainment, and that's exactly what we want their experience to be."

Christchurch may be in world terms – a relatively small casino, but even so it has 550 staff and a million visitors a year presenting no small security assignment for Henderson's 55 strong team. He says casino security issues in New Zealand are similar to those faced internationally.

"What will be happening in big overseas casinos will eventually get to places like New Zealand," he says.



It's a theme reflected in the mix of international and local sponsors with Honeywell, C.R Kennedy, NEC and Hills Electronic Security/Pacific Communications supporting the event with experts and equipment available for the delegates to consider.

"Honeywell has been part of our system here in Christchurch ever since we opened in 1994. We've built up a good relationship with them and we're proud to have them as a sponsor for this event," says Henderson.

"The Dallmeier range of products that C.R. Kennedy represent, they are very well recognised throughout the world. Hills Electronic Security and Pacific Communications were a combined sponsorship and they bought experts over from Australia."

On the agenda was a session from NEC's Glen Cameron who updated delegates on the trends in facial recognition systems and their rapidly increasing accuracy in identifying people that shouldn't gain entry to a venue. (See story page 12).

"Casinos bar people for various reasons," says Henderson. "They might be barred because they've been cheating or theft or they might be barred because they've got a gambling problem, and technology's got a part to play in identifying those people."

In Christchurch for example, we have surveillance monitoring people 24/7.

We have security personnel looking out for these people on the floor as well. We

have a pretty good track record of catching up with them," says Henderson.

"Certainly there are people around who want to basically cheat, or use devices to get advantage over casinos. A key speaker was Michael Barnett, he is a gaming risk consultant who travels the world and talks about those sorts of things. The Department of Internal Affairs also talked about counterfeit chips coming out of certain countries in Asia and the risk that they pose."

But Henderson says the conference wasn't all hard work.

"We wanted to have a sort of fun and learning experience for the visitors and I think we achieved that. The international people that came over gave us good feedback on the content."

Henderson says the conference's location in Christchurch sparked special interest from international delegates who wanted to find out about the Christchurch Casino's experience during September's earthquake.

"The earthquake footage was very interesting for them to look at," he says. "We've had thousand kilo chandeliers that were swinging around but the casino is a very safe and secure building and we came through very well. We didn't have anybody hurt."

The most important lesson we learned is to help manage people's fight or flight response and getting leaders to be a good example so that people will follow what they do," he says.





The 24th Annual Casino Risk Management Conference will be held next year in Tasmania.

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Facial recognition set to take off

By Peter Parnham

In the world of facial recognition systems, the immigration SmartGates at our international airports are entry-level stuff.

If you insert an Australian or New Zealand ePassport into a SmartGates kiosk it checks your eligibility for automated processing, permitting you to enter the country via an automated turnstile equipped with facial recognition software. This process by-passes the manual identity checks carried out by Customs officers and the queues in front of the desk.

The system is probably many Kiwi travellers' first knowing introduction to facial recognition systems.

In this case it is a simple validation check of a well lit, previously identified subject, who poses at the turnstile directly in front of the camera for matching to a standardised passport photo.

But Kiwis can expect to be the subjects of a lot more facial recognition checking in future as the technology is more widely adopted, even if they won't always know about it.

Scanning crowds looking for particular people of interest, or checking subjects against databases of millions of people is much more challenging for the systems.

According to Glen Cameron, an NEC, Wellington based, facial recognition expert covering Australasia, the technology has rapidly advanced and is in a completely different class of sophistication than the systems of just a few years ago.

Cameron presented a facial recognition session at the 23rd Annual Casino Risk Management Conference held at the Christchurch Casino recently.

"Unfortunately in Australasia we are a little bit slower than the rest of the world in picking up the technology at the borders, working with the police and other public safety uses. A lot of other countries have been using it for quite some time," he says.

"That also applies to the Casinos as well. With the Casinos a lot of them have trialled and used the technology for a few years but it is not until recently that the technology has actually come of age. It is now a very powerful tool."

Potential recognised

The potential has been recognised by the government.

Immigration New Zealand has begun trials of facial recognition for

visa applications and associated border control while Kiwibank is also looking at biometric capture.

The Kiwibank system will allow people to be photographed and potentially fingerprinted for identity verification - not necessarily for the bank but for other organisations, in particular the iGovt identity verification service, a new scheme that would allow people to verify their identity to government agencies online.

The enabling legislation is the Identity Confirmation Bill which is currently being considered by the Government Administration Select Committee who is due to report back to the House in April this Year.

The identity of individuals will be checked against information held on various government databases.

But it will not be just for government.

The pre-amble to the bill says that at present private sector organisations at the moment have only limited ability to check whether the identity information presented to them by members of the public is correct - a situation the bill sets out to remedy.

The service will require individuals to consent to the use of the service but it is



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hard to see how they could refuse without appearing suspicious.

It may be that only bigger private sector organisations will be able to tap into the service because they will need to enter into a detailed agreement with the government to do so.

But that is all in the future and at the moment Cameron says the way facial recognition is used is not impeded by legislation.

“Its pretty much the same as all the surveillance law, as all you are doing is automating a function that people are doing already. There are laws about what you do with the data and how it is being stored and that is what is important. How it is being secured is important too.”

While the systems comparing faces to large databases are more efficient and accurate than human operators, they still have a part to play.

“They can be used to look at the cameras and monitor if people are acting or looking suspicious. At the moment computer technology isn’t able to look for those things.”

He says that will be incorporated in the next phase in software development, with NEC’s first action and event technology due for release soon.

“Action and event analysis means evaluating actions like a person dropping something or picking something up, pointing at something or putting a cell phone to their head, say in a customs or casino area. A lot of retailers are also after that sort of information about who is picking items up and who is putting them down.”

Human operators are also needed to monitor the system, because there is a small error rate - largely determined by the quality of the images and the quality of the vendors’ algorithms.

If you’ve been for a passport photo lately you’ll know the photo requirements dictated by facial recognition have become much more stringent. You have to face the camera square on, fill the frame, be lit properly – and big smiles are out.

Overseas studies show that many existing law enforcement mug shots turn out to be substandard and the classic profile mug shots are not used by the systems.

The system may also have to deal with live images of variable clarity, especially when scanning an area like an airport concourse or a railway station.

In this situation, where you don’t want any undesirables to slip through, the system may be calibrated to be very



Within milliseconds, the NEC facial recognition system identifies Glen Cameron from a 750 person watch-list, using an image taken 40 years ago



sensitive, with error rates set to favour false positives rather than let a person of interest slip through.

“Part of implementing a facial recognition system is making sure that there are good business processes in place around that,” says Cameron. “There is no point in relying completely in the computer when you have a 0.3 percent error rate, so there is always a human making a judgement.”

He says in a concourse it is normal to use multiple cameras.

“In an airport we might have four cameras covering the same field of view so you get people at different angles. People may be hidden behind another person – which is usually not on purpose – or people may be looking down or looking sideways.

“Generally we use at least 40 pixels between the eyes, which on a modern HD camera is pretty small, we can detect and process up to 100 faces in a video frame.”

The other big factor is the algorithms – internal software logic – that is used, as an August report from the US National Institute of Standards and Technology shows.

“We had 0.3 percent error rate compared with opposition’s 2.5 percent - that is a big difference when you are processing thousands of faces,” says Cameron.

But while a \$30,000 server might get you checking a database of 1.3 million faces in less than a third of a second, Cameron says facial recognition can be viable in much lower cost applications that don’t need large amounts of processing power.

“In Japan they are using it in theme parks to verify annual passes because they had trouble with people sharing passes.

We use it ourselves for access control in our office in Wellington and Auckland.

“You don’t need to carry a card. You can also use it for high security areas where you use a card and a face. Then you are verifying that you haven’t stolen the card.

“I call facial recognition the friendly biometric because people are a lot more comfortable about giving a photo of their face rather than a finger print, and it’s easier when you are carrying things because you don’t have to put things down.”

He says the NEC system is good at working with glasses and beards.

“Glasses don’t make much difference so long as you can see through them and they are not completely black lenses.

“Our Technology works differently to most of the other facial recognition technologies. Normally they measure distances between eyes and nose and mouth and that sort of thing. Our technology breaks the face up into a grid and compares areas of similarity so if the eyes are identical but the mouth region or the nose is completely different – which means it is probably covered or a disguise – then those areas are excluded from the score.

“In some of the motorbike applications we have in Asia they don’t even have to take of their helmet off, we can just look at the eyes and nose region to be matched rather than the whole face.”

Cameron says no single biometric technology provides all the answers.

“We are looking at combining technologies to create a safe environment, as a technology company that’s were we are going - looking at multi-modal solutions.

As fast as you invent a technology or a hardware device to read biometric data, people will come up with ways to try and fool it, so as a technology company we have to constantly provide new technology to be ahead of the criminal fraternity.”

High Definition by Sony

A new benchmark in camera picture quality



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One on One

with Jon Wilson

Business Development Manager

Gallagher Security Management Systems



Name:

Jon Wilson

Job Title:

Business Development Manager

Who do you work for now:

Gallagher Security Management Systems

Number of years in the security industry:

2 years

Contact Details:

Phone: 07 838 9800

Web: www.gallaghersms.com

Email: sales@gallaghersms.com

What chain of events led you to a career in the security industry?

I have an extremely varied work history - from my earliest role as a commercial helicopter pilot and instructor through to Marketing Manager, HP for South Pacific. I also completed a bachelor of commerce at Otago University in the early 90s.

My roles have always had an element of customer service and sales, business development and information support. The opportunity to work for Gallagher Security presented itself at the right time for me to accept my next challenge.

What has been your biggest industry achievement so far?

Being part of the team which won the NZTE International Business Award last year was rewarding. Gallagher makes a significant commitment to R&D for the security unit and to be acknowledged for that investment shows our strong customer focus.

The security business unit has access to an R&D team of 90-plus staff who have detailed and deep knowledge of the security sector, including electric fence technology, radio frequency identification, IT and security requirements, data encryption, high security applications, systems integration and industrial design.

What concerns you about the industry at the moment?

The current economic climate is having an effect on the standard of service and products delivered to end users. Business managers are working hard to protect their profit margins and one option is to select the cheapest security provider or solution.

Unfortunately, this often means the installer may have cut corners to meet their costs as well and in a highly competitive market providers may not be delivering a quality product.

If you could change one thing about the industry, what would it be – and why?

Maintaining a high level of service and product delivery is vital. To ensure a quality end user customer experience Gallagher has established a formal channel partner (CP) programme. We ensure channel partners are trained and certified to specific tiers of qualification e.g. certified enterprise system integrator, sales, installation and servicing for specific systems.

We also undertake formal annual business planning with each CP to identify key goals and strategies and mutually beneficial activities to grow the business. This business planning is recorded and reviewed annually to maintain a certain level of expertise.

How do you think the security industry is perceived by the public?

Perception is generally defined by your direct experience with a business or individual so this reinforces the need for strict quality control within our industry and to maintain a strong customer focus.

Operating within a B2B(2B) environment, Gallagher defines its customers as both end users of its systems and solutions and our certified channel partners (distributors/dealers) who deliver and support our solutions in-market. We make sure their interaction with Gallagher is always a positive experience.

What are the most enjoyable parts of your job?

I enjoy building and enhancing relationships with our channel partners and end users to learn about their business needs and to identify opportunities where Gallagher may be able to assist with all aspects of their security – from the physical perimeter to access control and intruder alarms.

Gallagher has the advantage of working with a select group of third party partners enabling us to present a combination of security solutions to get maximum security benefit.

What are the key attributes for someone working in your area of the industry?

Excellent listening skills and a strong customer focus.

Gallagher's philosophy is to maintain a strong customer focus

and that philosophy is delivered 'from the top', by CEO, Sir William Gallagher, who travels extensively to visit our customers and channel partners. It's important to have a very clear understanding of what the customer wants, so that we develop security solutions that solve business problems and not create technology for technology's sake.

What technological advances in security are you most excited about?

The most recent concept we have developed is what we coined identity analytics. This describes an enriched access control decision which automates compliance with operational and regulatory policy. This ensures people are competent, safe and accountable as they move around on site.

Gallagher delivers identity analytics functionality via our Cardax FT physical security management system. This enables organisations to leverage their investment in physical security infrastructure to achieve an unprecedented level of granularity and discretion in personnel flow and workforce management.

Identity analytics provides a high degree of control and certainty by ensuring the right people (who are inducted, trained, licensed and competent and therefore compliant with regulations) with the right assets (e.g. vehicles or safety equipment), are in the right place at the right time and by alerting system operators to exceptions. This greatly mitigates the risk of accidents, partial or full site shutdown and corporate liability.

What do you do in your spare time?

I am currently studying towards an MBA at Deakin University, Australia, so that takes my spare time although I am on my last paper.



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Appropriate Rugby World Cup security assured

So-called security embarrassments about Rugby World Cup venues, reported in mainstream media late last year, had nothing to do with the Rugby World Cup say the tournament's organisers.

"They did not involve any RWC 2011 security overlay," says spokesman Mike Jaspers from Rugby New Zealand 2011 Ltd, the company half owned by New Zealand Rugby Union and the Government.

The company was set up to run the Rugby World Cup later this year.

According to Jaspers it is not possible to draw inferences about Rugby World Cup security from the story that saw reporters from a Sunday paper walking into restricted areas at World Cup venues without ID while carrying banned goods and toy explosives, or from the stories about spectator fighting and bottle throwing during the Four Nations rugby

"We've taking every opportunity to get the message out to people going to games: 'Don't arrive intoxicated.' In conjunction with the industry we will be policing in a much more assertive way around pre-game intoxication."



Eden Park upgrades are on track, so is security planning

league test between New Zealand and Australia at Auckland's Eden Park.

"Rest assured security will be appropriate for a tournament this large and a wide range of stakeholders are involved in security planning with the aim of making it a safe and enjoyable experience for all fans and players," says Jaspers.

Still, the company remains tight lipped on whether the industry needs to gear up to handle an event this size, or whether it expects the tournament to be held under the regime embodied in the Private Security Personnel and Private Investigators Act 2010.

The Rugby World Cup was used as a spur to enact the legislation.

The new act introduces Crowd Controllers as a new class of security personnel. The government says they will

require training and a qualification to gain a certificate of approval under the new act but the details are unknown to the industry until the relevant regulations are developed.

According to the Ministry of Justice the consultation process for the regulations is now complete and Wayne Newall, National Manager Tribunals says the Ministry is currently considering the submissions.

He says a decision on the date from which crowd controllers will require a certificate of approval has not yet been made, nor on the date on which it will be announced.

"However, the specified date will not be before 1 June 2011. It will allow time for people to make applications and for the Licensing Authority to process them," he says.

He says applications can be made from 1 April 2011. All the same, it might be optimistic to make an application until you know you have passed the necessary qualification.

Whatever the dates turn out to be, the industry training providers, whether on-the-job or off-the-job, will need time to organise the necessary training. If there is a new curriculum needed for the qualification, they will need time to develop and deliver the training modules.

Tight timetable

The timetable to get the regulatory regime in place and implemented in time for the Rugby World Cup may seem pretty tight. The size of the training task alone is difficult to estimate, according to the Security Industry Training Body, ETITO.

Communications Manager Josephine Gallagher says the numbers of trained crowd controllers can't be forecast with any certainty because although the organisers may know the venue requirements, the extent of hospitality events associated with the cup is unknown.



Intoxicated fans can expect to be turned away from stadiums like the upgraded Eden Park

She says that is too early to know how long a crowd controller training course might take to complete.

"Completion of unit standards for national qualifications relies on numerous factors such as the requirement for training provision or on-job training and

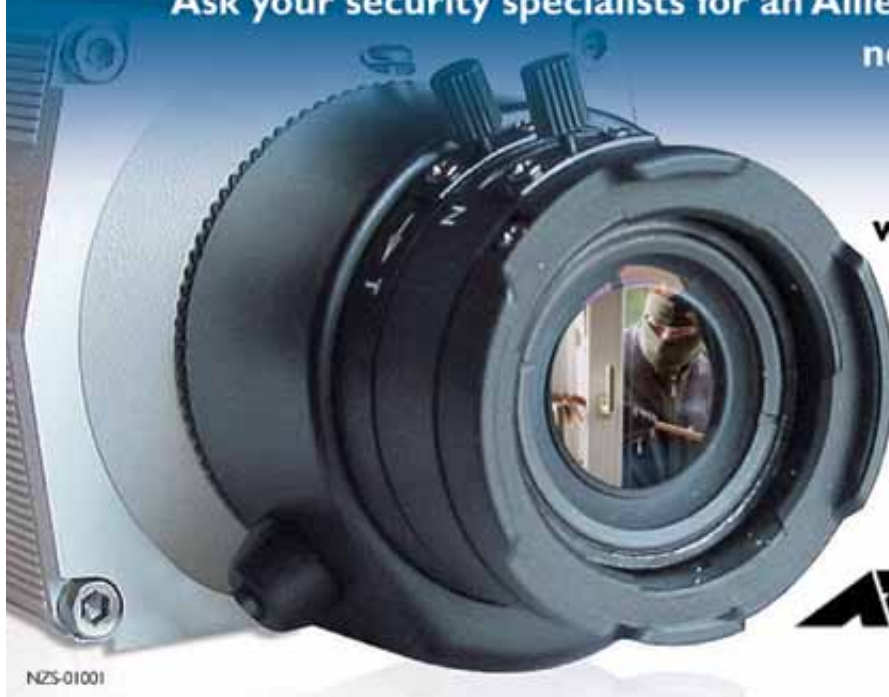
assessment, as well as the availability of assessment opportunities in the workplace," says Gallagher.

"The main challenge now is for the various requirements of the act to be applied under regulation. This is something the Ministry of Justice is

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"We don't want people going away thinking security was over the top, but to go away thinking our planning was meticulous and we were able to deal with whatever arose."

working on and a process which involves consultation with and between ETITO, industry and other interested parties." She says the timetable is in the hands of the Ministry of Justice.

"There is no certainty that regulatory competency and skill requirements need to be in place by the Rugby World Cup. It may be that they come into effect at a later date but the Ministry is responsible for this."

Police plan operations

While there may be some unknowns for the private security industry and training providers the Police have long since had their timetable worked out.

Superintendent Grant O'Fee heads the Police operation for the tournament - a position he took up almost two years ago.

"I started by myself back in March 2009. There are five of us full time at Wellington headquarters and we have district planners for each one of the thirteen venues," he says.

He says he would like people to go away after the cup thinking the police were

unobtrusive, efficient, and they did what was needed when it was needed.

"We don't want people going away thinking security was over the top, but to go away thinking our planning was meticulous and we were able to deal with whatever arose," he says.

As part of the preparations he and other members of his team observed other large scale events. O'Fee went to Zurich for the FIFA world cup security planning meeting and took a close look at the planning for the London Olympics.

"One of our guys went to South Africa for the FIFA World Cup. They are very different in South Africa. They employed 40,000 police just for that, so it is a matter of scale. There were armed guards and armed police officers with semi-automatic weapons and that's fine, but they have issues that we don't have - thank goodness," he says.

"We've learnt a lot collectively from those things - it been a useful exercise."

Assertive

But unobtrusive policing doesn't mean soft, and O'Fee is keen to deter extreme or unruly groups.

"We've taking every opportunity to get the message out to people going to games: 'Don't arrive intoxicated.' In conjunction with the industry we will be policing in a much more assertive way around pre-game intoxication," he says.

"People arriving at grounds intoxicated can expect to be turned away, but we don't want to be the fun police. I always talk of half a dozen Welshmen who've had a couple of pints singing *Land of our Fathers*. It would be ridiculous to say you can't come in. We are talking about exercising a common sense approach.

But if people are behaving aggressively or over the top - in other words people that are going to spoil the fun of other people - they run a very real risk of not being allowed into the stadium."

According to O'Fee, communicating the message to international visitors who have difficulties with the local language did not prove to be a big issue at previous tournament in France or Australian World cups.

"The fact of the matter is that most of the people who travel tend to have some grasp of English and the ones that don't it is working in our favour," he says.

"The evidence from previous world cups suggest that people outlay a lot of money to travel to these events, they've paid quite a lot of money for the tickets and they are a little older than the normal demographic that will go to Bledisloe cup game."

"The other thing in our favour is that most of the pool games have no bite in them. It's going to be good fun but you can hardly see the crowd at Trafalgar Park in Nelson getting really swept up in Italy playing Russia or being bitterly disappointed if one team doesn't win. I think it will be a really fun occasion with sort of a festive atmosphere."

The police aren't new to security for large events involving foreign heads of state. O'Fee points out the APEC summit in 1999 as an example, but nevertheless he says some extra training is scheduled.

"There's a little bit of extra training around things like specially protected persons - heads of government that may or may not come. And we are working to make sure we have enough personal protection officers to fulfil our obligations to look after those people.

"There is also a bit of up-skilling around making sure we have got enough crowd control trained staff. It is just contingency planning and making sure we have got enough people like specialist search groups and that type of thing."

Coordination

He says his job involves coordination with other agencies - something the Police are used to.

"Although we are the lead agency for security, the Department of Prime Minister and Cabinet co-ordinate our activities with other agencies, be it Customs or Ministry of Economic Development or for that matter the New Zealand Defence Force who help us with logistical stuff and all that type of thing.

"And we work very closely with Rugby New Zealand who have been really good," he says.

O'Fee says interaction with the security industry has been positive.

"I think we are pretty much in the same wavelength, it's a question of making sure we are all on our game because it will be a team effort by industry, Police, government agencies, Rugby New Zealand and thousands of volunteers.

"It's a question of everyone realising we have all got to look after our back yard while at the same time giving everyone else a hand as well. I am confident that it is a team effort and most organisations I have been involved with have been very much aware of that."

"I am more than happy with the way we are going," says O'Fee.

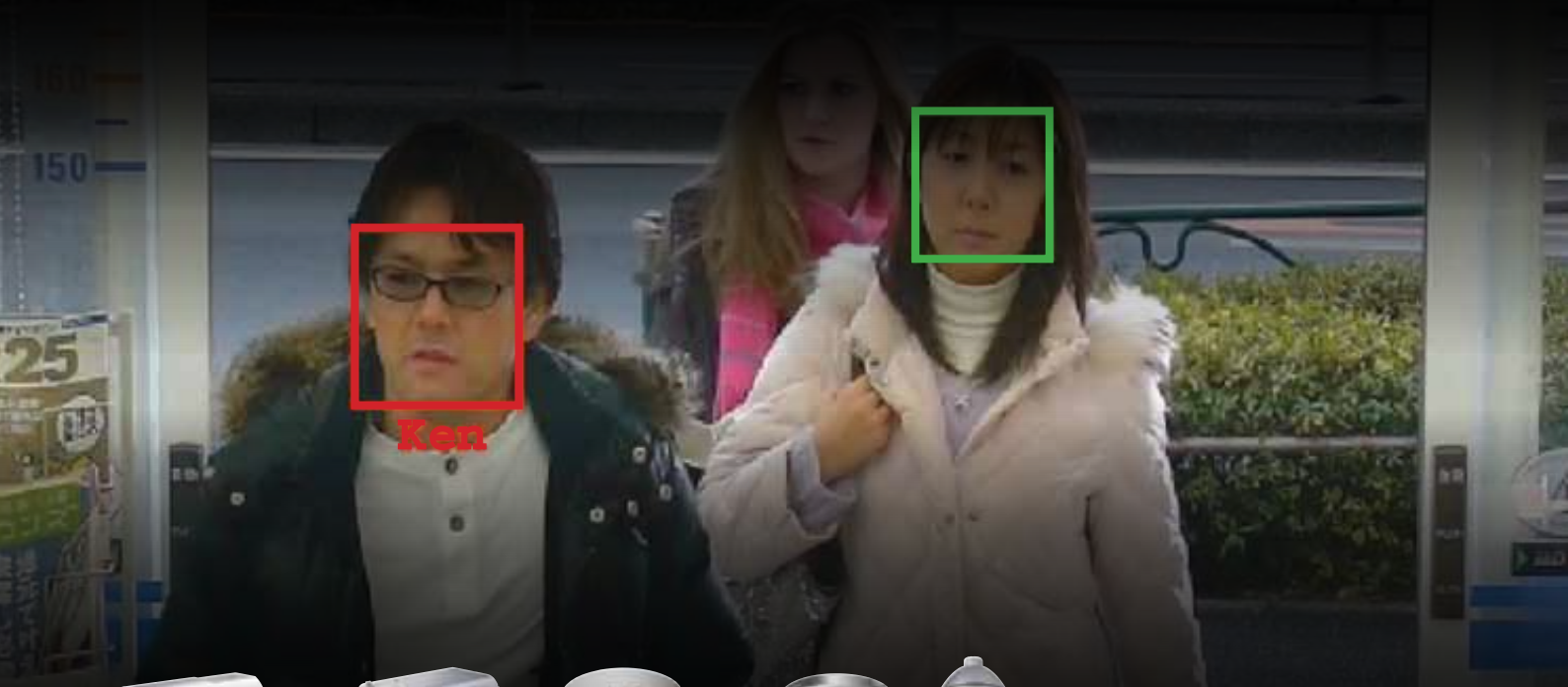
"You never get too cocky, but right at the moment we are right where we want to be."



Superintendent Grant O'Fee heads the Police operation for the tournament

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Beams, bollards and spray keeping intruders at bay

Keith Newman takes a wider view of perimeter security

Most of us prefer strangers to maintain handshake distance when they first approach; if they get too close too quickly our protective senses kick into fight-flight mode while we decide whether they mean us harm or simply have a warped perception of personal space.

Likewise, there are commonly understood protocols for approaching a home or business if your intentions are honourable, and another set if they are not. Entering commercial or industrial premises other than through the front gate or after business hours clearly constitutes a threat.

The level of response may escalate based on the perceived threat and technology deployed. Bright security lights exposing untoward activity may be sufficient deterrent but alarms, CCTV recording, alerting a security firm and loosing the hounds might also be in the mix.



Smart retractable Kiwi designed bollards on the Wellington waterfront help with security and traffic management



John Hallwright the principal manager with Access Security and Control in Auckland

The ideal approach to security is a combination of perimeter detection which raises the alarm before the criminally minded have reached their goal, and intruder detection which notifies the building owner or security firm when a window has been broken, a door jemmied or entry gained to the premises.

While CCTV is typically the first thought that occurs when people are considering perimeter security, its usually part of the solution and one of a growing number of stand alone or integrated systems for protecting buildings and property.

Control perimeter first

John Hallwright the principal manager with Access Security and Control in Auckland, says without first securing the perimeter, installing security cameras can be a waste of money. "First you want to be clear about what your most likely threat is and what you are trying to achieve with your security system. You don't want to put cameras in an uncontrolled area."

He says the goal is to push threat detection to the furthest possible distance from the buildings, which is the property perimeter. "It's like border protection of

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a country. You don't start off securing the individual cities you watch the airport and the ports."

The approach to security will also depend on whether you have a low, medium, high or terrorist threat level. The perimeter may simply be fenced off, or if the concern is more critical electrification, topped off with razor wire may do the trick along with a specialised access control barrier arms, turnstiles or a security gate.

Hallwright says a lot depends on whether the gates are closed 24/7 in which case it is a high security environment, typically requiring people to use access cards. "A ground loop exit is nice and friendly because you have to have a card reader for people to exit. That way if something suspicious occurs or items go missing at the weekend, for example, you just view the log to see who was in."

Another issue that many find difficult to control unless they have a high security set up, is tail gating where one vehicle or person can sneak through in the wake of another. "At Marsden Point Oil Refinery all passengers are required to get out of a car and step through controlled turnstiles while the driver is checked and badged which reduces the chance of tail gating."

That says Hallwright is terrorist level security and while there are a few premises around the country which operate this way, tailgating remains a real problem in less secure environments.

He believes modern security systems should involve a high level of automation. He cites a well known ice cream company which has a medium security need but a low value approach which he believes is far from cost effective.

While CCTV is typically the first thought that occurs when people are considering perimeter security, its usually part of the solution and one of a growing number of stand alone or integrated systems for protecting buildings and property.



SolarBeam delivers double beam infrared perimeter security

"They have two people sitting at a gate in a guard house watching people come in and out 24/7. At around \$200,000 a year I would say that would be hard to justify. Technology and automation can save a lot of money if deployed properly and if you are clear about what you are trying to achieve."

Double beam deterrent

Sandra Thompson and her husband James of Max Security in Ashburton have the franchise for a solar powered infrared beam perimeter solution that is proving popular with lifestyle block owners who can't see the end of their drive, orchardists, construction companies and businesses with large yards.

SolarBeam can be customised as a gateway access alert or around the perimeter of an orchard or a commercial or industrial property to trigger its own alarm, feed into a wider security alarm system or make phone calls to the closest person on duty.

The driveway alert system connects a 20 metre pair of beams across an entrance to a wireless receiver in the house or business premises. Pairs of beams can cover sections up to 200 metres distance in line of sight for perimeter protection or use boosters to extend that coverage and multiple pairs can be integrated into a single system through an eight zone receiver.

Thompson says the system is used in avocado and cherry orchards to deter thieves as the fruit starts to ripen. "The two beams make it very reliable so you don't get false triggering and the beauty is that it's solar powered so there are no wires to run."

She says people use them as perimeter monitoring solutions in the construction industry protecting building sites and equipment after hours and in the dairy industry where farmers need to know if someone has come onto the property.

An eight zone receiver system can trigger multiple phone calls, for example if key people are busy milking or engaged in other tasks they can't leave.

The beams are generated from 18 cm tall boxes, typically mounted on posts with a set of units and receiver selling for around \$500-\$600. The wireless receiver can be up to 500 metres from the installation. However the line-of-sight system can't operate through metal or reinforced concrete.

Thompson says cheaper single beam systems are available for a couple of hundred dollars from other suppliers but they are prone to false triggers from birds flying through, for example. She says a number of customers have upgraded to the SolarBeam double beam sensor system because of its proven reliability and low cost of operation.

The Ashburton company is servicing inquiries from Australia, Fiji and South Africa where the sunshine hours mean the solar power system, with battery back-up, is perfect for gateway and perimeter management.

Sensors on fences

In the lead up to the Rugby World Cup a number of security companies were looking at intelligent perimeter solutions, particularly those that might be set up and removed quickly for crowd control or used to protect temporary construction sites.

One of the products being touted was the Israeli designed and made Sabra Fence, comprising matchbox-sized sensors placed three metres apart which could trigger alarms, cameras or lights by responding to vibration or even heat.

The sensors, had 15 different sensitivity settings, each with an IP address to inform the back-end computer equipment exactly where a breach has occurred. That might trigger a security camera to start filming or generate an alert to a remote computer or a text message.

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While a 150 metre barricade could be installed in a few hours and strong interest was generated early last year, former distributor Global Intelligence Solutions dumped the franchise after it was deemed too expensive for the local market.

However even standard protection measures like the trusty old electric fence are getting smarter. Gallagher's PowerFence systems for example sends an electric pulse around the perimeter every 12 seconds but if that doesn't prove to be sufficient deterrent the system reports the zone under attack raising an alarm through the monitoring system.

Without the short sharp shock treatment the fence can still be configured to report if its integrity has been breached at any point and link into a wider security or access control system.

The fencing system can be used for a range of premises from military to commercial, storage facilities or car sales yards. One of the most recent deployments was securing a 3km perimeter around the Hamilton Zoo to keep intruders out and in case of break out, keep the real animals in.

The customised fence solution blends in aesthetically with the surroundings and is divided into 17 separately alarmed zones which can be separately managed from a central site or by a roaming security guard with a control pad.

In most secured situations if the outer perimeter has been breached there are a range of sensors that can escalate awareness of intruder activity. For example glass break sensors placed every few metres can respond to vibrations or the audible sound of glass breaking and isolate the point of entry to a building.

Like magnetic reed switches for door or window movement, passive infra-Red or temperature sensors and seismic detectors they can feed into the main alarm system. A thorough security system may have a mix of sensors often integrated with the access control building management systems which are monitored remotely.

Smart bollard buffer

While gates and security barriers are standard for entrance security, one Kiwi company is working on restoring the reputation of the often maligned automatic bollard with a simplified design and smart reporting technology.

Bully Boy from Brown's Bay, essentially Charles Broadhurst and his son David, worked for seven years to come up with a design that is both robust and self aware.



This spray protected steel wall along the Napier waterfront at Awatoto remains graffiti free unlike the walls of the neighbouring warehouses

The ruggedised 100 kg bollards have stainless steel exteriors with reinforced steel interior approved to withstand the impact of a 2 tonne vehicle travelling at 44km hour.

The high impact "intelligent heads" can report to a monitoring station if they're hit and from what direction. "It can make a clear distinction between a schoolboy giving it a kick and an attempt to break security. Three gravity forces is definitely an assault and may trigger the appropriate alarms over the phone network as determined by the client," says company director Charles Broadhurst.

He says automatic bollards often have a bad reputation because they're too complicated, have too many moving parts and the components are too sensitive to put in the road. "They get hammered to death by vehicles running over them."

Bully Boy has one moving part, the bollards themselves which are activated by compressed air with low voltage electronics powered from separate side or underground units or even by battery or solar power. The bollards feature dual circuits and pumps and the system constantly checks itself and flags any faults.

The units emit a strong red light to inform users they're in operation and adjust the lighting level, according to the time of day. When integrated with ground loops or infrared beams the bollards can easily become part of existing security systems or be operated independently from a keypad or cellphone.

The company filled its first export order in December with four bollards installed in time for the Royal Exhibition

in Melbourne and recently tendered for contracts for the Singaporean Defense Forces which could see nearly 80 units deployed.

One of its key clients is the Wellington Port where 17 bollards now operate controlling traffic access lanes where they allow authorised vehicles in an out of the waterfront 1000 times a day and another restricted area where large container trucks manoeuvre several times a week.

The bollards have also proven successful in a trial at Massey University in Palmerston North where security at five of the 12 car parks was abandoned after students refused to pay to get their vehicles out at the weekends and were driving through the barrier arms.

Installation of Bully Boy barriers in one Massey car park soon put an end to that and the fact they are low maintenance and lubricated for four million operations could soon see the units deployed in all the car parks.

Spray soaks taggers

However it's not only breaking and entering that poses a threat to businesses. If presentation and first impressions reflect on public perception then vandalism, including graffiti, is a form of intrusion that needs to be deterred.

Bill Bicknell was getting thoroughly fed up with seeing the frontage of his Mangere whitegoods outlet defaced by graffiti when hip hop culture first arrived 18 years ago. His son stepped up with an interim solution by attaching a high pressure hose peppered with holes across the front of the building.

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With a little modification a couple of driveway light sensors ensured anyone who got close enough to tag got sprayed before they could do any damage. The graffiti stopped.

No further thought was given to the prototype for another 18-years when Bicknell senior urged his engineer son to explore the commercial potential of the no 8 wire invention. After trials in Hawke's Bay and further research and development, the Storm Wall system went into production mode with sales around the country.

Today Tony Bicknell's Graffiti Security Systems has thousands of metres of his Storm Wall system protecting commercial and industrial buildings from taggers.

He moved to Auckland early in 2009, and began to gear the company up for strong nationwide growth and growing export inquiries.

While the system may sound simple, Bicknell says it took six years of development to get it to the current level of sophistication. The electronic sensors and spray nozzles are much more refined and can be fine tuned to be accurate

within a few centimetres to prevent innocent pedestrians or cyclists getting an unexpected shower.

There are two layers of "very articulated" spray; one nozzle runs water down the side of a building and another creates a spiral mist out front to not only annoy taggers but disperse any paint before it reaches the surface.

A further deterrent says Bicknell, is that the system "goes off" with an audible bang because of the water pressure which blasts out at 125psi for 5 seconds then drops down to 40psi. "You need to wet the surface immediately so paint doesn't get a chance."

The standard product is called Storm Wall but a customised version for doorways was developed after Kiwi Income Property Trust, became frustrated with lazy late night boozers urinating in the doorways of their blue chip properties.

Storm Door, features an electronic box of tricks, which ensures anyone planning to pee or even sleep the night, is quickly deterred by an abrupt high pressure dousing of water.

While clients may have to justify an initial investment at \$600 per linear metre, depending on the length and width of the premises to be protected, the Storm systems are designed to last the life of the building.

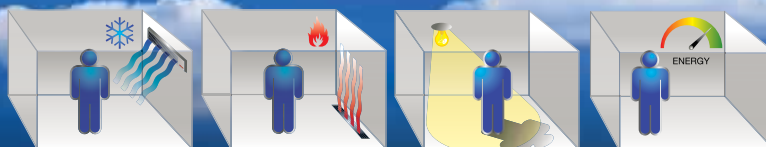
Today the Storm Wall system is used by several local authorities, commercial outlets and warehouse operations in previously high graffiti areas. It's even protecting a number of Auckland motorway billboards. "I operate the business as my late father's legacy with the intention of stopping as much graffiti as I can," says Bicknell.



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The Inner Range Access Control System now supports high level integration to over 150 different proprietary and open Building Management System protocols such as Bacnet/IP, LON, Modbus and EIB.

Inner Range's state-of-the-art Access Control System can track the movement of users within the building and send commands to the lighting control or HVAC system to ensure that these services are only operational in particular sections of the building whilst those sections are occupied. Control of these services may be further qualified by time schedules.

Key benefits include:

- Control regional lighting and HVAC services based upon movement of persons in a particular area of a building, but only within specific time periods.
- Control regional lighting and HVAC services based upon the counting of persons in and out of an area or building.
- Only use HVAC and lighting in those sections of a building that are occupied. Reduce energy costs associated with servicing empty sections of a building.
- Increase the safety of your building's occupants by turning on lights as soon as they are needed in a lift foyer through the monitoring of lift car floor buttons.
- Lock or unlock doors or lift cars as a result of events or alarms generated within the HVAC system.
- Manage your HVAC, lighting and Access Control systems from a single computer or many computers.
- Remotely administer all facility management services, including your Access Control system, via a corporate Wide Area Network or the Internet.

Gallagher's Enriched Access Control Delivering Realtime Business Compliance

I dentity Analytics - an enriched access control decision which automates compliance with operational and regulatory policy ensuring people are competent, safe and accountable when they're on site.

Delivered via Gallagher's Cardax FT, Identity Analytics enables organisations to leverage their investment in physical security infrastructure to achieve an unprecedented level of granularity and discretion in personnel flow and workforce management.

Identity Analytics provides a high degree of control and certainty by ensuring the right people (inducted, trained, licensed competent and compliant with regulations) are in the right place at the right time. System operators are alerted to exceptions greatly mitigating the risk of accidents, partial or full site shutdown and corporate liability.

What was once considered a 'security access control decision' can now be thought of in broader terms as a 'business workforce enablement decision'.

Whereas access control based on 'who can go where and when' delivers relatively fixed, non-dynamic results, it is greatly enriched when informed by data from integrated systems including business and regulatory policy defining an individual's suitability for access - training, certification, licences and fitness for work.

Bi-directional information flow between business systems overlayed with policy and its effect at the point of entry delivers an ongoing impact throughout your organisation. As business rules are set, managers are assured that organisational and regulatory policy is automatically enforced. The effect on day-to-day business can be felt on the ground by every employee - they have the assurance that their co-workers are fit for work and their working environment is safe.

Activity can be monitored and measured through a real-time audit trail. This unprecedented transparency means business decisions and requirements



can be adjusted and actioned quickly in response to their effect.

Identity Analytics enables proactive and pre-emptive workforce management. Traditionally, if a person is denied access they have little or no understanding as to the reason. They are left with the frustration of having to report their situation to their manager or Security personnel. Identity Analytics delivers truly intelligent access control decisions which are communicated in a meaningful way on distributed hardware at the door or perimeter gate. Staff can be warned via a door reader screen or gate display screen of any upcoming expiry of their licences or competencies, so they can proactively address these issues and prevent them from becoming an impediment to their access.

For more information go to www.gallagherms.com

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Win new customers and grow your business

“Make sure your message gets through to the key companies that sell your product to end users.”

IN NEW ZEALAND THERE ARE OVER 2000 SECURITY COMPANIES THAT RESELL PRODUCTS AND SERVICES TO END USERS.

Unless your business successfully reaches each one of those companies that should be selling your security products and services, you are missing out on growth.

Before they recommend you and your products to their customers, they must believe in you and what you can do for them.

There is now a unique way to reach out and gain the trust of the key people and companies who can help you grow your business: a NZSecurity Magazine Profile.

Your specially written NZSecurity Magazine Profile will put you in front of a highly targeted network that has been developed by NZSecurity Magazine over 15 years. The only specialised network of its type in New Zealand, it covers all regions and all sectors incorporating all the key people you need to reach.

The profile is a double page story written for you to engage the readers, your resellers and customers, in a way that they can relate to, building trust and knowledge as they get to know you and your products.

It's easy. You tell us your story and our experienced professional writers will shape it until it works for you.

Your story will reach thousands of readers of NZSecurity Magazine, raising your profile even further among end users, staff and other security industry personnel by positioning your story in a highly desirable position in the magazine.

To take advantage of this cost effective opportunity you need to book early because space in each issue is limited.

CALL CRAIG FLINT ON 09 409 2018

Cost effective

A profile costs less than posting out A4 brochures, even if you had all the up-to-date addresses in your own database.

You could pay someone to create and constantly update a database – a hugely time consuming job. You could pay someone to stuff thousands of envelopes. You could find and engage a professional writer. You could find and engage a professional layout designer.

And once you did all that, a large percentage of all your hard work could be binned by the company's receptionist, along with the junk mail.

But there is another way: you can save all that money and hassle, and count on your message getting past the front desk to the people you need to reach.

Convenient time saver

A single call will set the project going, leaving you to concentrate on managing your business. Call Craig Flint at NZSecurity Magazine, save time and hassle and get your message in front of the people who can help grow your business.

Credible

With a NZSecurity Magazine Profile you have the opportunity to be associated with the highly credible and trusted NZSecurity Magazine name and reputation built up over many years. NZSecurity Magazine will not devalue its own brand or your company by profiling inferior companies, products or services.

Tell a story

In a NZSecurity Magazine Profile, you will be telling your story focusing on the benefits for the reader. That is what sells. It is not a brochure filled with technical specifications, it is not marketing puffery, and it is not a highly stylized advertisement. It is a story about your company, your products, your services. Mostly it will be a story about people, who you are, and why you are worth the customers' business. What benefit there will be to them if they choose your products and services. Even better, if you have a happy customer – let them help tell the story for you.

This kind of profile engages the reader in a way no other sales and marketing document can, building trust in you and your products and services.

Increase the power

Increase the power of the message with a companion display advertisement (optional). Let the profile tell the story, and the advertisement showcase the product.

This combination adds up to far more than the value of either individual approach because the profile and advertisement reinforce each other making it ideal for launching new products and services.

Most effective of all is to use a NZSecurity Magazine Profile to launch a campaign, for your company or new product. Follow up with a program of advertisement over subsequent NZSecurity issues reinforcing the value of the profile over a period of months.

A combination story and an advertisement package brings you a stronger marketing message, yet the combinations cost you less.

CONTACT CRAIG FLINT ON 09 409 2018
or by EMAIL: craig@newzealandsecurity.co.nz
and ask about a NZSecurity Magazine package deal.



Easy process

1. Decide what the focus of your profile will be - your new product, your company, your new team, your new premises or any combination.
2. Make a simple phone call to Craig Flint at NZSecurity Magazine.
3. Our writers will call you or meet with you in person to uncover the story you want to tell. You don't need to have material all polished up and ready or worry about what you need to say. Our professional and experienced writers will walk you through it, their job being to tell your story.
4. A draft will be emailed to you and it will not go any further until you are 100% happy with it.
5. A layout will be emailed to you for final approval. This can also be used to order extra printed copies to use as your own flyer, or added to your website.
6. Standby for results.

From Bangkok to the Rugby World Cup: Allied Telesis International meets the security network challenge

Rebecca Officer, Corporate Analyst, Allied Telesis Labs Ltd, Christchurch

The RWC is about to put New Zealand on the world stage. In September, it will launch an influx of visitors across the whole country. For businesses that depend on travellers, this means expanded security and surveillance challenges.

As a world-class destination, New Zealand needs world-class security - without breaking the bank.

High-resolution digital video is much more effective for safeguarding equipment and people than earlier CCTV. Modern digital cameras and IP networking make streaming video available for many exciting applications, at a lower price than you may expect.

Allied Telesis International (ATI) is an experienced provider of such solutions. ATI partners with other providers to bring you everything you



Allied Telesis' Christchurch design centre

need in a single solution, from cameras to network switches to management software.

For companies with existing analog CCTV, the need to upgrade cabling can be a problem. Cat5 Ethernet cabling is inexpensive, but re-running cable may not be. ATI are world leaders in media converters, which make it possible to upgrade your cameras without replacing existing cabling.

For cost-effective simplified infrastructure, ATI's Ethernet networks can utilise Power over Ethernet (PoE) to power cameras, negating the need to run separate expensive power feeds to every camera site.

PoE+ is an exciting new expansion of PoE, supplying 30 watts of power per switch port. This makes it simple to power high-end cameras, with features such as remote controlled pan-and-tilt, or demisters and blowers. With pan-and-tilt cameras, if the action moves off-screen, so can you. Such robust solutions widen your options for deployment.

Many of ATI's network switches are designed in the company's Christchurch design centre. This centre is one of the top employers of computer engineers in Christchurch and has won a number of technology awards. Sales and support staff are based in Auckland, Wellington and Christchurch, ensuring responsive national coverage.

NZ customers can benefit from ATI's local and international experience, including some of the largest surveillance networks in the world.

An impressive project currently underway is the Bangkok Metropolitan Administration (BMA) IP Video Surveillance System. BMA are the local government of Bangkok, responsible for schools, hospitals and roads.

You name it, Bangkok has it - including a notorious reputation for heavy traffic. In spite of being one of the busiest cities in the world, with a population above 9 million and a huge number of visitors, Bangkok has a much lower proportion of its land area dedicated to roading than



A weatherproof roadside cabinet in the Allied Telesis network in Bangkok

the world average. The city cannot keep up with growth by massively expanding its road network; instead it must make the best possible use of its existing roads. The IP Video Surveillance project expands on current efforts to do this.

By late 2010, the project had installed 3000 IP cameras across the 1600 square kilometres that make up Bangkok city. Further project phases are planned, utilising thousands more cameras to expand traffic management and add security surveillance.

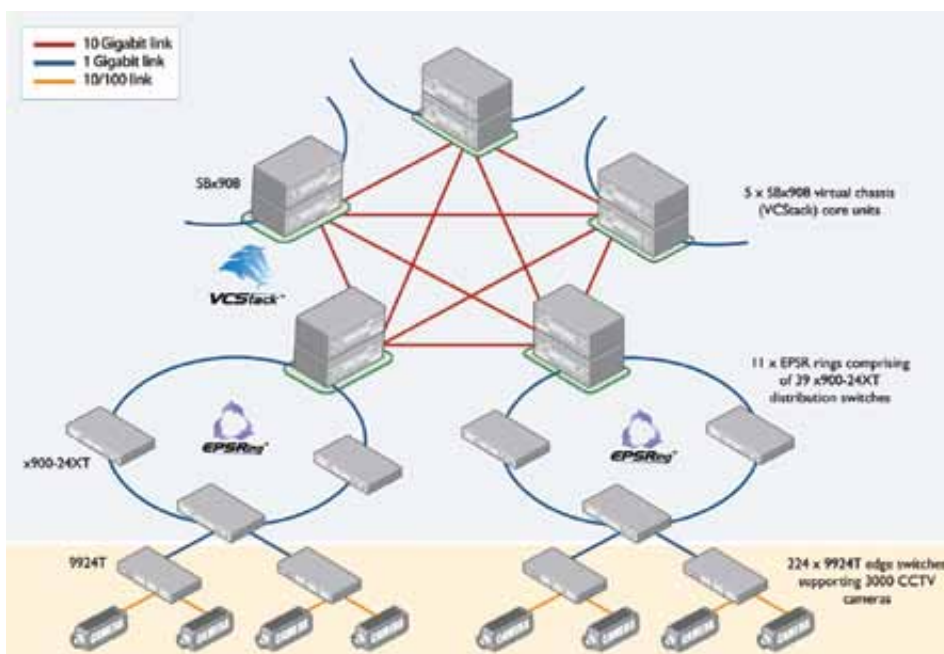
As well as providing data for policing traffic, the system's key goal is improved traffic flow. It will put traffic information in the hands of drivers, via smart phones, the Internet, radio and TV. Traffic light phases will be automatically adjusted in response to changes in traffic density, as measured by image-processing cameras. The system will minimise driver waiting times and reduce pollution and fuel costs.

Customers like BMA find it essential to have video output at their fingertips in centralised control rooms. The ability to see a city as a whole in real-time is invaluable for traffic control, making it possible to route traffic away from accidents, road works and congestion.

If this is applied to emergency services, traffic control can save lives.

It is not only traffic control who benefit from real-time centralised data; this is obviously invaluable for security and event management applications. Instead of trawling film after the event in search of perpetrators, security staff can respond to problems as they happen, or even before.

The city environment can put high demands on infrastructure equipment. Threats vary from weather damage to deliberate sabotage. Solutions need to emphasise resiliency, especially for systems that could provide vital information in a disaster. For Bangkok citizens, the civil unrest of 2010 added a layer of significance to the BMA surveillance project, highlighting the need to protect public and private infrastructure.



The Bangkok network

Resiliency does not have to equal complexity. The ATI solution features a simple ring structure, with multiple data rings distributing streaming video around Bangkok. ATI's advanced ring technology, EPSR (Ethernet Protection Switched Rings), keeps data flowing. EPSR has a 50 millisecond failover time, so fast that there is no disruption to live security video streams.

The network core works in conjunction with the data rings to guarantee maximum availability of network resources. The core comprises ATI's modular gigabit switches with multiple resiliency features: dual redundant hot-swappable power supplies and fan modules, and hot-swappable port expansion modules. Switches can be reconfigured or even replaced with no network downtime.

The core switches utilise virtual chassis stacking technology (VCStack™), which creates a single "virtual chassis" from multiple switches and manages it as if it were a single switch. Together, EPSR and VCStack provide a network with no single point of failure.

In surveillance applications, security of the video streams is paramount to ensure real-time review of images, which in

turn helps to prevent crime and manage traffic flow with timely monitoring of city infrastructure. ATI's switches provide secure data transfer of surveillance feeds to the centralised control centre.

Advanced features - including data encryption, denial of service attack prevention, secure remote management, and a wide range of authentication options - provide a network always available for the transmission of critical data. Graphical tools and an industry-standard command line make networks simple to monitor and maintain.

The BMA network exemplifies ATI's expertise in providing a large scale distributed surveillance network. At the smaller end of the scale ATI offers simple configurations for surveillance of a single building. One highly-economic Layer 2 PoE switch can power many IP cameras and send the video streams to a server for real-time analysis and storage. VLAN support means that the same switch can securely separate and carry your other network data, providing an all-in-one solution.

ATI's cost-effective leading edge solutions scale to support the largest city wide networks, or the simplest single customer installations. Numerous installations across New Zealand meet the needs of customers as diverse as the NZ Transport Authority, Wellington Institute of Technology, hospitals, local businesses and many schools.

Is New Zealand's infrastructure up to the RWC challenge? As a solution provider, ATI certainly is.



For more information please visit:
www.alliedtelesis.co.nz/cctv
 or phone 04 5664438

NZ Security plain English guide to the Private Security Personnel and Private Investigators Act 2010 Part Two

Disclaimer: This guide is intended to be a plain English general outline only. Professional legal advice should be obtained if a legal interpretation is required. A copy of the Act may be downloaded from www.legislation.govt.nz

Expiry of licences and certificates

If you don't re-apply under the new Act your certificate or licence will expire on 2 June 2011. According to the Ministry of Justice, applications will be accepted from 1 April 2011, the day the Licensing Authority commences.

Objections

The Police will get a copy of applications for a licence or certificate of approval and may object within one month. Applicants will receive a copy of any objections.

Public objections - licence

The applicant for a licence will have to publish a notice of their intention in a format yet to be revealed. The public will have one month to object.

Period for Objections

After the month for objections the Authority will need a further week to serve copies of objections (if any) to the applicants, and then may need additional time to hold a hearing before an application can be approved.

Oral hearing

If objections are received, by giving ten days notice, the licensing authority may decide to hold an oral hearing concerning an application. The applicant will be able to use lawyers, call evidence and cross-examine witnesses at an oral hearing.

Refusing applications

Grounds for refusing an individual application outright are extensive and include: avoiding a conviction on grounds of mental impairment, a term of imprisonment, and sex crimes.

In addition, within seven years, certain offences under the Arms act, drug dealing, mandatory penalties for repeat driving offences involving use of alcohol or drugs, dishonesty offences or violence offences.

For a company, grounds include dishonesty offences, certain fair trading act offences, and certain drug offences and if any of the company officers would not qualify as individuals.

Working without a necessary licence or certificate is grounds to refuse an application.

Emergency appointments

If, owing to employee illness or emergency, your business does not have enough staff holding a certificate of approval to carry on your business, an emergency appointment is allowed.

You must inform the Licensing Authority. The employee must have an application for a certificate of approval already with the Authority and the employer must believe that it will go through. Each employer can only do this for up to a two week period with any particular person and can't do it again with the same person.

Licence holder annual return

Every year the licence holder must send an annual return to the licensing authority advising of any changes to the details that were in the original application.

The licence holder must also advise if any the details of any certificate holders that work for them have changed.

Updating certificate information

If you are certificate holder you will need to advise the licensing authority of any change of address. You will also need to advise them if any of the grounds for disqualification arise.

Identification

Except for private investigators, individuals must wear the ID badge issued by the licensing authority at all times when working. It will not show your name or address.

Complaints

The police can complain about a licensee or certificate holder. The public may also complain but the authority can refuse to accept frivolous complaints. As well as the grounds for disqualification or contravening the Act, the complaint may be about gross negligence or misconduct.

The licensee or certificate holder will get a copy of the complaint. The Licensing Authority can refer the matter to the Police or the chief investigator

of the Complaints, Investigation, and Prosecution Unit.

If a complaint has been made, the Licensing Authority may suspend a licence or certificate until a determination is made but must tell the subject of the complaint why and the subject must be able to make representations as to why the suspension order should be revoked.

Licensing Authority must hold a hearing into complaints and has a range of options if it upholds the complaint. It may suspend or cancel a license or certificate, and impose fines. It may direct a license holder to terminate an employee and it may direct a certificate holder to undergo training.

Liability of company officers

If a company commits an offence against this Act, every officer of the company is guilty of the same offence, and is liable to the same penalty, unless he or she proves that the offence was committed either without his or her knowledge or without his or her consent.

Licence or certificate not to confer additional powers on

Like the previous Act, the new Act does not confer any extra powers or authority on people working in the security industry over those of anybody else.

Codes of conduct

If it desires, the government has the option to make regulations prescribing codes of conduct for any class of security personnel. However the Act says it must produce a code of conduct for private investigators and private investigator employees by 1 April 2011 the date the Act comes into force.

Cancellation of licence or certificate

Your licence or certificate may be cancelled if something that would have prevented you getting your application approved arises, if you commit a dog control offence on the job, for misconduct, gross negligence, bankruptcy, making false statement when applying, or offending against the act twice within three years.

INFINITY LENS™ CCTV LENSES MASSIVE DEPTH OF FIELD

GBO's innovative InfinityLens™ product range delivers a breakthrough in optics. With extended depth-of-field and edge-to-edge sharpness, these unique mega pixel rated lenses enhance your system's ability to provide more useful information.



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Earthquake brings RFID project forward

FE Technologies has been awarded a contract to implement their RFID technology within the prestigious University of Canterbury Library.

The radio frequency identification (RFID) technology revolutionises the process of checking out and returning library items.

FE Technologies' newest contract will ensure radio frequency tags are attached to 1.3 million items across the library's network using mobile retrospective converters.

The operation has regimented time constraints; the most critical aspect remains the tagging of 800,000 items in time for the 2011 academic semester, less than three months away.

Library IT Manager Anne Scott said the application of the RFID tags in a short time frame was critical to the success of the project.

"The majority of the library's books were dismantled during the devastation of the Christchurch earthquake," Ms Scott said.



University of Canterbury Library

"The University have decided to tag the collection whilst re-shelving the books to maximise the efficient handling of these items."

FE Technologies will also guarantee the functioning of all self loan stations and security gates before February 15 2011. CEO Robert Reed said that FE

Technologies was ready to take on the challenging new venture.

"FE Technologies have the critical mass in the library arena to complete this project in such a short space of time," he said.

"The contract is an exciting opportunity to grow our overseas clientele."

To ensure the successful completion of this project, all items will be tagged using the FDIS28560 part 2, with specific elements such as Set Information, Type of Use and Marc Media format.



Chaos in the University of Canterbury library after the earthquake

For further information please visit www.fetechnologies.com.au or contact Peter Ferendinos on 0800 231 977



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Low power consumption - low operating temperature •
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armature - offsets to 55° to suit doors opening past
90° • Additional flexible mounting in both planes to
speed alignment • Wall mount extensions available •
Wall mounted, overall 429mm, is also available finished
switch end only, and can be cut to any length • 12 VDC
models and 24 VDC models • Push off button - no residual
magnetism • Oversize armature for easy alignment
• Emergency release button • Electroless nickel plated
armature and electromagnet • Stainless fastenings •
Blackened stainless screws • Full local support and back up
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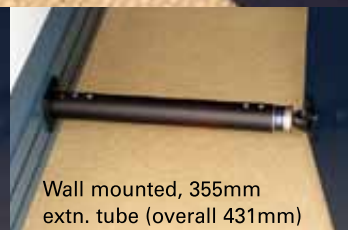
Standard, floor mounted, wall to door distance 114mm



Wall mounted, 126mm
extn. tube (overall 202mm)



Wall mounted, 156mm
extn. tube (overall 232mm)



Wall mounted, 355mm
extn. tube (overall 431mm)

Flush mounted, wall to door distance from 50mm

Surface mounted, wall to door distance 70mm



FDH40SS

stainless steel surface and flush mounting

This device enhances an outstanding range of
unbreakable products which conveniently hold open
fire doors. When a smoke or fire alarm is activated
the magnet instantly releases the door to the closed
position to prevent the spread of smoke and fire.
These units feature satin finished stainless steel
covers for optimum aesthetic appeal and durability.
To allow maximum flexibility the electromagnet is
pre-assembled onto a plated steel mounting plate.
The installer can now utilise one device for surface
mounting, which is ideal for solid walls of concrete,
stone and the like, or for flush mounting into plaster
board lined walls, because both options are packaged
in the same box. **PLUS NEW 10 YEAR GUARANTEE***

**Designed, tested and produced
in New Zealand to AS4178**



Both options are packaged in the same box.

Focus your attention

Bosch Intelligent Video Analysis



Take action with Bosch Intelligent Video Analysis

No matter how few or how many cameras your system uses, monitoring everything effectively presents a serious challenge.

Even observing just a single screen for long periods pushes concentration to the limit – after only 20 minutes, an operator can miss as much as 90% of the activity in a scene.

Bosch Intelligent Video Analysis (IVA) helps operators stay focused by introducing a new level of automation to CCTV monitoring. Edge-based, real-time processing identifies alert conditions, giving your security team the information it needs to react swiftly and take action.

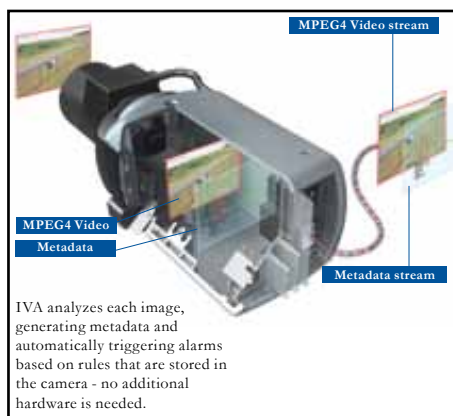
CCTV surveillance re-invented

A major asset to overall surveillance, Bosch IVA technology supports your security personnel with a comprehensive and efficient event detection and alarm system. This next-generation, intelligent digital image processing system greatly improves security and safety, keeping a constant, unblinking eye on any scene.

Working independently on each camera, Bosch IVA operates without a central analytics server. You can choose a wide variety of advanced detection functions, ranging from idle object to trajectory tracking. Live images are analyzed instantly and the resulting data stream accompanies the video feed.

Events are immediately displayed, while the data can also be stored for later review. As a complete system solution it captures comprehensive details of recorded scenes, giving you the power to find any event – even those not originally set up as alerts.

Bosch Intelligent Video Analysis – focus your attention, and take action.



Intelligence at the edge

Taking a unique approach to video content analysis, Bosch IVA puts the image processing power inside the camera or video encoder. Able to automatically recognize key events in a scene and alert the operator, it delivers “intelligence at the edge.”

Bosch IVA helps your security team react quickly to suspicious activities or potential threats. Each surveillance camera in the system becomes an active member of your team, automatically:

- ◆ Identifying events during continuous real-time image analysis
- ◆ Alerting the operator by sending an alarm when it detects a critical event – turning your cameras into a virtual security team

Furthermore, whether your existing system uses analog cameras or Bosch IP cameras, adding Bosch IVA capability is simple and cost effective.

Intelligent Video Analysis: an extra set of eyes

Accurate, efficient and convenient, Bosch IVA performs multi-level image analysis of pixel, texture and motion content inside the camera. Intelligent Video Analysis tracks the trajectory (speed and direction) of all objects, and can detect loitering as well as idle or removed objects.

Bosch IVA uses advanced algorithms to deliver the most reliable solution for surveillance monitoring. Ongoing development ensures new techniques are continually applied, improving ‘intelligence’ and enhancing current functionality via software upgrades.

While offering a very high degree of sophistication, Bosch IVA is very easy to implement, set up and control.

Fine-tuning of sensitive areas, detection fields, object shapes and movements lets you configure the system the way you want, quickly and accurately.

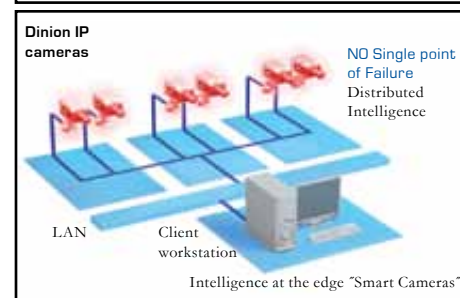
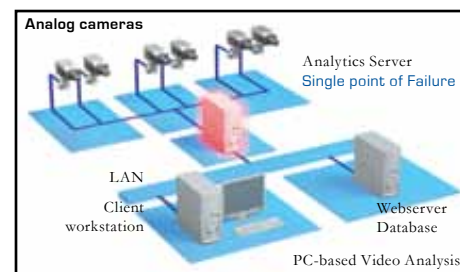
Traditional solutions use a central server to analyze video content. This involves hardware and maintenance costs, puts the system at risk for computer viruses and requires full data streams from each connected camera. Most critically, relying on a single server creates an inherently weak system: if the server fails, analysis fails for every camera.

Using ‘distributed intelligence’, Bosch IVA creates a far more robust system – it has no central server and therefore no single point of failure. Intelligent Video Analysis operates independently in each component. Even if one camera or encoder fails, the rest of the system remains fully functional.

Further benefits include:

- ◆ Reduced costs and enhanced reliability: no need for analysis servers or operating systems
- ◆ Operates with multiple cameras without any centralized hardware
- ◆ Reduced data load and storage requirements - all video analysis is done at the edge in the camera
- ◆ Minimizes your overhead: a single licence fee covers all detection capabilities enabled in the camera

Bosch IVA gives you far-reaching benefits in system effectiveness and reliability.



A more robust and powerful system

By themselves, cameras with Bosch Intelligent Video Analysis make your surveillance setup more effective. But as part of a complete system they bring a wealth of additional benefits.

Capturing details in metadata

IVA captures data on everything that happens within the active areas of each monitored scene. Content analysis information, in the form of metadata, is generated and stored with the video images.

The metadata contains details on all objects within, entering or leaving the monitored areas. And the analysis doesn't stop with live scenes, Bosch IVA can also provide event recognition during playback of recorded video.

The recorded metadata, comprised of simple text strings describing specific image details, is much smaller and easier to search through than the recorded video images. By searching the metadata with smart search facilities like those provided with an Internet search engine, IVA quickly takes you to the relevant footage without having to scan through the entire recording.

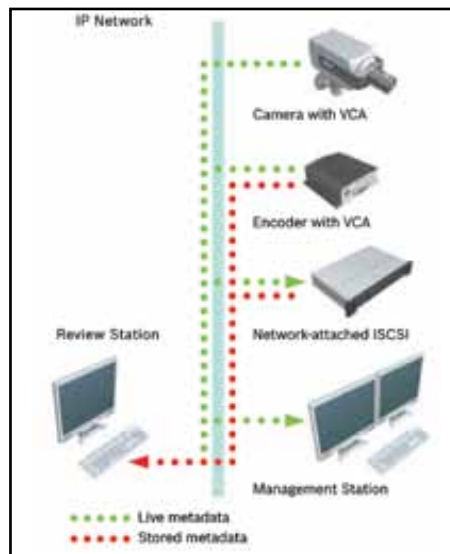
Real forensic search

What if something happens in a scene that your system was not set up to detect? Bosch IVA forensic search offers you a unique solution – simply review the archive video using new detection criteria.

With our Intelligent Video Analysis forensic search, you can search for different events compared to those detected during live viewing. For example, you can reconfigure the system to detect a 'left object' when searching your archived video, even if the system was not originally configured to detect this event.

User-friendly set-up and control

With Bosch Intelligent Video Analysis, the system analyzes video content based



on your input criteria. These are entered via the 'rule wizard', which takes you through the process step-by-step. Areas to watch within each view, object size and shape, motion direction and many more parameters can be set for each camera.

The intuitive menu makes set-up straightforward and allows you to specify what event, or combination of events, will trigger an alarm.

Any events detected by the system that fit the pre-defined criteria are depicted clearly on-screen. Object outlines, color-coded according to the alarm status, overlay the monitor images to show their position. Factors such as aspect ratio and perspective are automatically accounted for.

Extra reliability

To help ensure alarms are only triggered for real events, features such as camera calibration and perspective correction greatly enhance Intelligent Video Analysis accuracy and reliability. Also, special filters for size, speed, direction and aspect ratio minimize false alarm rates.

Statistical analysis of the captured images makes the system highly weather resilient. Even rain or snow may be filtered out.

Image stabilization ensures that only movement within the captured areas is detected, and not movement caused by the camera swaying in the wind.

Guarding against physical interference, Intelligent Video Analysis also features tamper protection that highlights any sudden changes to the input signal compared with a reference frame.

Your virtual Bosch security team

Working as an integrated part of your surveillance system, Intelligent Video Analysis reinforces your security capability. It ensures monitoring performance does not degrade due to fatigue, distractions or having large amounts of activity to observe.

Ready to go

Bosch IVA is already built into many of our IP cameras. Integration into existing systems is also easy, by adding one or more encoders and purchasing a license for each camera using IVA. And you only need to activate Bosch IVA for cameras that cover critical areas, keeping costs down and helping your security personnel keep a watchful eye on the most important views.

A dual heritage in image analysis

Bosch Security Systems' achievements in video content analysis technology include the industry's first digital recording system with motion detection, in 1999.

We have continued research intensively, improving motion detection and developing advanced object tracking and event detection algorithms. We have also benefited from Bosch's R&D experience in the exacting field of vision-based systems for automotive applications.

Our extensive research in this area brings future motoring applications such as road sign recognition and pedestrian detection ever closer to reality. In fact, some of our solutions are already appearing in cars today.



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Ask the Expert:

What should I take into account when deploying network cameras outdoors?

Contributor: Wai King Wong, Axis Country Manager, Australia & New Zealand

In today's IP world, deploying indoor network cameras has become relatively straightforward. Sure, there are many different factors to consider, but new ease-of-installation designs have eliminated a lot of the legwork. Outdoor deployments, however, present different practical challenges. Weather, lighting, camera housing, connectivity and resolution all must be addressed. I've broken down the considerations into four sections to help ensure a smooth outdoor implementation.

Physical/Environmental

Don't underestimate the effects of weather, especially in the north. Rain and snow can damage your camera and play tricks on your images, so an IP (Ingress Protection)-rated outdoor enclosure is extremely important.

Consider cold-weather-safe startups that allow cameras to function at -40°C and also power up to the proper temperature following a power failure.

For PTZ cameras, if the internal mechanism and lubricant do not warm up properly following a power failure, you could damage or shorten the lifespan of the camera's moving parts.



Axis outdoor camera in use at the Melbourne Cricket Ground

For PTZ cameras, if the internal mechanism and lubricant do not warm up properly following a power failure, you could damage or shorten the lifespan of the camera's moving parts. Some manufacturers have intelligence built into their enclosures so that when the power comes up, cameras won't operate until they reach a certain temperature. Rain and snow aren't the only liquid factors to consider. Determine if the housing will be exposed to water pressure (car wash), high-pressure cleaning (cruise ship), or severe dust. As mentioned above, check the unit's IP-rating classification to verify the degree of protection against dust and water in electrical enclosures.

Don't forget that environmental considerations go beyond weather. Certain installments may call for vandal-resistant housing (correctional facilities, school yards). Additionally, you'll come across end users with specific mandates that affect your decision, such as windshield wipers installed on the enclosure to keep the viewing window clear.

Lighting

Day and night lighting present additional issues in outdoor implementations. Remember to mount the unit high and point it downwards to fight glare. Know the sun's path and avoid any direct views

into it. In fact, it's best to minimize all sky views to avoid a wide range between darkness and bright sun. Finally, ensure that a fixed camera's lens touches the enclosure glass, or else you'll see a lot of reflection.

For bright lighting conditions, a camera with wide dynamic range will help to provide the best image for identification. Make sure your camera has an auto iris feature, which opens camera apertures in the dark and closes them in full light to protect sensors.

For dark conditions, make sure to request a "true" day/night camera with an automatic I/R cut filter. Many cameras out there claim to be day/night, but the auto-sensor is crucial for best results. If the end-user is concerned with perimeter detection, a thermal network camera may be an appropriate addition to your installation. Since these cameras utilize heat to detect objects, they are ideal for areas that can't be fully illuminated or that are often affected by fog and smoke.

Connectivity and Power

It's easier to connect and power up outdoor network cameras when they are attached to buildings, but when they are placed remotely outdoors you'll need to consider additional factors. It may make sense to trench to provide power and network connections, but it can be expensive and unreasonable, particularly when network cameras are far away from the existing network.

Solar panels are a convenient and green choice if a local light pole is not present, but 900 MHz point-to-point connections are most commonly used. These connections provide better security than 802.11a/b/g/n, but you must avoid obstructions for a line-of-sight connection. If you have trees, hills or buildings between points, you'll need a non-line-of-site wireless connection.

If wireless security concerns arise, explain that 802.1X security authentication for data connections prevents unauthorized individuals from making connections. By setting up a camera's serial number, MAC address and model number with the layer 3 network switch, other units can't gain access to the network because the network switch will block it.

Outdoor Checklist:

1. Physical/Environment

- Proper IP-rated outdoor enclosure
- Cold weather-safe startup needed?
- If PTZ camera, intelligent temperature control
- Additional considerations (vandal resistant, end-user mandates, etc.)

2. Lighting

- Mount camera high, aim lens down
- Avoid direct sun views / minimize sky views
- For fixed camera, lens must touch glass
- Bright conditions: Wide dynamic range and auto-iris
- Dark conditions: "True" day/night camera

3. Connectivity and Power

- Is trenching reasonable?
- For wireless, solar power or 900MHz point-to-point
- Line-of-site / non-line-of-site
- Wireless security

4. Resolution

- Assess application needs
- Assess areas to be monitored
- PTZ, fixed or combination

For more information on Axis outdoor cameras visit:

<http://www.axis.com/products/video/camera/outdoor/installations.htm>

AXIS P3346-VE network camera



Resolution

Depending on the specific outdoor applications — such as when you want to read licence plates from as far as 100 meters away — you need to determine the required resolution that will sufficiently handle the job. Also remember that a higher resolution camera might be less light sensitive.

Once you've established the areas to be monitored at the appropriate resolution, determine whether you need fixed, PTZ or a mix of network cameras. While PTZ network cameras provide scan and zoom features, they may only view 50 to 60 degrees at a time, leaving other areas uncovered. A combination of fixed network cameras for wider coverage, with a small number of PTZs for specific views, could be most cost effective.

There's a lot to think about when installing a successful outdoor surveillance system, so I recommend creating a checklist before hitting the site so you cover all the bases.

ASIS NZ Inc AGM

The 2010 ASIS NZ Inc AGM was held in Auckland on 2 December and was well supported, with strong attendance by a number of Auckland members together with executive committee members from Wellington and Dunedin. Following presentation of the Chairman's and Deputy Chairman's reports, together with a summary treasurer's report, executive committee members for 2011 were elected with those positions filled as follows:

- Chairman Alistair Hogg CPP
- Dep Chairman Carlton Ruffell CPP PSP
- Secretary Andrew Ferguson CPP
- Treasurer Chris Martin

In addition, the following members continue to serve in key roles:

- Bruce Cooper
Auckland Branch Shadow Chairman
- Michael Pepper
Regional Vice President (ASIS HQ appointment)
- Murray Mills
Member of the Professional Certification Board (ASIS HQ appointment)

The incoming executive wishes to express its gratitude to all members of the previous executive and other active members for their efforts throughout 2010.

As part of the 2011 general work plan and recognising the need for ongoing and continuing education within the security profession, the executive committee intends to actively promote the three certification programmes offered by ASIS International throughout the year, with examinations to be held in November 2011.

ASIS International Board certifications are accepted globally as a measure of knowledge and experience within the security profession and demonstrate an individual commitment to personal development and ongoing education.

Each certification requires an appropriate level of relevant experience and education, and is assessed by written

examination after a period of self or group study throughout the year.

Further, to ensure that the certificant remains current and relevant within the continually evolving security landscape, every certificant must recertify every three years either by sitting the examination, or by accruing recertification credits via approved activities which may include: ongoing education and personal development, participation within industry activities and initiatives, volunteer leadership, amongst other opportunities.

ASIS currently offers three certification programs:

Certified Protection Professional (CPP®)
Preeminent designation awarded to individuals whose primary responsibilities are in security management and who have demonstrated advanced knowledge in security solutions and best business practices.

The CPP programme is designed to test the knowledge and skills of security professionals in the following fields:

- ◆ Security management
- ◆ Emergency management
- ◆ Personnel security
- ◆ Investigations
- ◆ Physical security, and
- ◆ Protection of sensitive information

Professional Certified Investigator (PCI®)
Technical designation award to those individuals whose primary responsibilities are to conduct investigations and who have demonstrated in-depth operational knowledge and competence in this area.

The PCI programme is designed to test the knowledge and skills of security professionals in the following fields:

- ◆ Investigative techniques and procedures
- ◆ Case management
- ◆ Evidence Collection
- ◆ Case Presentation

Physical Security Professional (PSP®)
Technical designation awarded to those individuals whose primary responsibilities are to conduct physical security surveys, design integrated security systems, or install, operate or maintain those systems and who have demonstrated in-depth operational knowledge and competence in this area.

The PSP is designed for persons involved in the application, design, installation and consultancy of security measures being implemented throughout the community. The PSP tests knowledge and skills in the following fields:

- ◆ Physical security assessment
- ◆ Application, design and integration of physical security systems
- ◆ Implementation of physical security measures

Eligibility to undertake any of the ASIS International Board Certifications is based on a mix of past experience and prior training and education, and a full list of eligibility criteria and definitions is available from both the ASIS NZ and ASIS International websites.

Participation within any of the certification programmes offered, together with the certification designation itself, is not restricted to ASIS International members although a number of benefits are clearly available to candidates who are in fact members of the society.

Further information is available via the websites and by contacting any of the executive who will be only too willing to discuss the certification programme with potential candidates.



NZSA Update

For those very many of us who will have worked through the Christmas and New Year season, I trust that time with family and friends will have offered a suitable offset to time at work through this period, and whether through preference, opportunity or necessity, work must carry on within the security industry. Whether at work or on holiday, the season offered its own challenges in terms of weather and other natural phenomena both within New Zealand and to our friends across the ditch and our thoughts go out to all effected in all areas. Certainly, major catastrophic events such as we continue to witness at home and overseas, help put a lot of things in perspective when compared to our normal daily problems and challenges.

With regard to the NZSA and specifically the NZSA office, at the time of writing the office is closed and all staff are enjoying a well deserved break, resting I'm sure for some hard work ahead, and by the time this issue goes to print, I would imagine that our first board meeting for 2011 will have been held and a number of key initiatives agreed and underway.

2010 closed out with some very healthy discussion relating to the proposed marketing and membership benefits plans and it was satisfying to see that considerable work had been done in both areas. Further development will be required in order that the board can approve, or otherwise, these initiatives following a very robust moderation process.



Alistair J Hogg, CPP, MSc

Alistair Hogg has been actively involved within the New Zealand Security Industry since 1987, in a variety of roles and across a broad range of activities with a strong background in electronic security, close protection and manned services.

Alistair is currently Chairman of both the New Zealand Security Association and the New Zealand Chapter of ASIS International.

An advocate of industry training in general, Alistair holds both the CPP designation from ASIS International and a Master's Degree in Security and Risk Management from the University of Leicester, U.K.

Alistair is a director of Dunedin based company, Aotea Security Ltd.

Email: alistairh@aotea-southern.co.nz

The immediate calendar ahead is busy with the continuing evolution of the specialist working parties, discussions with other industry organisations, and ongoing discussion with the ETITO in relation to general matters including the refreshed memorandum of understanding, and specific discussions relating to industry qualifications and requirements. It is pleasing then, that the NZSA enjoys the support of a hard working cadre of staff and volunteers at all levels who understand the amount of work in front of them and the expectations around that.

That said, it is with no small amount of regret that I wish to acknowledge Brendon McLaughlin's departure from the board due to other work taskings within IAG and at the same time acknowledge the significant contribution that Brendon has made during his time on the board. On

behalf of the board I wish Brendon all the best with the new challenges ahead and with the new role and wish to express our very genuine thanks for his efforts on behalf of the NZSA.

IAG will be represented at the board table by Robin McRae who has previous experience serving on the board in a caretaker role for IAG in past years. Robin brings a range of skills and experiences to the role and we look forward to his contributions in the time ahead.

The year in front of all members for the NZ security industry will likely be extremely busy, both commercially and in terms of changes generally within the industry, and I have no doubt that with the full return to work of our staff and volunteers, the NZSA will forge ahead with speed, enthusiasm and a degree of controlled urgency.



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NZIPI Update

It's been a quiet start to the year for NZIPI. Indeed we are pleased to advise that in regard to complaints it's been a very quiet past year. NZIPI like other professional bodies can only act or consider complaints against its members, it has no authority or power to consider complaints against non members. What is interesting though is that in the past 6 months there has been a number of persons, including via one lawyer, asking NZIPI to consider complaints against non members. The clear picture is emerging that our members take their obligation to work to a Code of Ethics seriously, they are dedicated to the profession and have demonstrated a willingness to be judged by their peers. Surely, it is time for clients to insist on instructing only members of NZIPI.

In regard to our new Act, we lodged a submission on the proposed Code of Conduct, especially in regard to the surveillance section, which some might argue effectively took us back to the old Act.

We just hope that commonsense prevails and our politicians reflect on the reasons they removed the old Section 52 that prohibited private investigators from not taking or using photographs or video. Much has been said about this, but again we stress we only want to have the same powers as anyone else, nothing more, and we are under an obligation to produce best evidence in Court.

We still have a committee team working on the proposed changes to access to motor vehicle register checks. Certainly the Ministry of Transport has been willing to listen to our submission and again we are hopeful that the role we play in fighting insurance fraud, thefts and other dishonesty crimes will be acknowledged in the final consideration.

Another team is liaising with NZSA in an effort to find common ground and ensure that the industry groups work together in mutually beneficial areas.

Our Vice Chairman, Mike Campbell, of Advanced Investigations, is our elected delegate on the Crime Prevention



*NZIPI Vice Chairman,
Mike Campbell of Advanced Investigations*

Partnership Forum (CPPF). Mike is liaising with the other Forum members and can be contacted on mike.campbell@xtra.co.nz.

Ron McQuilter - Chairman NZIPI
www.nzipi.org.nz

The benefits of a monitored alarm But not if you intend to commit fraud

It has become common for insurers to offer a discount if a homeowner has a monitored alarm system and certainly there is no arguing the benefits of having a good system, in proper working order, being monitored.

This particular insured had some money issues and one of the first things to get cut was their monitoring costs, so they contacted their provider and cancelled the monthly fee.

A few months later they claimed to their insurer that their home was burgled at night whilst they were away for only a short time at the local shops. They arrived home to the sound of their alarm and discovered a large amount of property

missing. The home had been quickly ransacked and jewellery taken as well.

Unfortunately though, the investigator on finding the alarm had a monitoring facility decided to check with the monitoring company just to validate what had been said. Imagine the surprise to find out that whilst the contract might have been terminated, the monitoring itself had never actually been cut.

An alarm specialist soon determined that the alarm had indeed been set as claimed, but then first triggered from a PIR in an internal room within seconds of being set and before the car could have left the property. The entire burglary had been staged.



Ron McQuilter is the current chairman of the NZIPI and is Managing Director of Paragon Investigations.

Ron can be contacted by email:
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Have you heard a SMOOTH story?

The Summer is starting to show as being significantly long and hot and dry.

So it should not surprise you that your locks are also finding it to be very dry. After all, when did you last lubricate them?

I suppose I shouldn't really let you into trade secrets like lubricants because if you read this and apply the knowledge, our work level will go down dramatically. If you maintain your locks on a regular basis it might reduce our work by as much as 50%. But then it is probably too much like hard work for you to take 30 minutes every six months to walk around with an aerosol can putting a squirt into every keyway and every latch.

Of course selecting the right lubricant and applying it correctly is half the battle. For instance, most of you will have heard that the proper lubricant for locks is Graphite. This is definitely one of the valid options. First of all you need to make sure that you have the right type of graphite. So if you want to use graphite, drop into your nearest Master Locksmith and pick up a tube. This way you will get a type of graphite that works well with locks. Graphite has an effect known as superlubricity and is perfectly happy to work in a damp environment.

In fact it requires natural moisture from the air to be able to work. Now comes the question of applying it. To lubricate a keyway in a cylinder lock, just hold the graphite puffer to the keyhole and give it one moderate puff. Too little and you

won't get any benefit. Too much and you can block up the entire keyhole and won't be able to get the key in. After applying the lubricant, insert and remove the key about 10 times as well as turning the key left and right. You should be able to feel that the operation of the key is SMOOTH.

However if you want to lubricate the lock body with graphite, then it would be necessary to take it apart and work the graphite into each sliding surface.

We would NOT recommend that you take the lock apart, although of course it would have the side benefit that the locksmiths would suddenly get a lot more work. Remember that locks have a lot in common with Jig-saw puzzles.

If you can figure out the correct position for each part, then it shows as a "lovely picture" that works well. But if you get one piece out of place then other parts don't make any sense either.

Of course if you find that sounds all a bit daunting, then you can use a standard aerosol lubricant. However be aware that there are different characteristics with each lubricant.

Some lubricants dry out and leave a hard film that will build up and seize the mechanism. Others turn to glue when they attract the dust. Some are primarily cleaners to get rid of the existing rubbish and then leave a thin film of lubricant behind.

Others are long term lubricants. I most certainly do not claim to have tested all or even most lubricants. But for your general purpose application you will probably find that WD-40 is one of the better general cleaner/lubricants. However it will need to be used much more frequently as it comes under the heading of short term lubricant. Beyond that, you really need to drop into

your Master Locksmith with details of your situation so that he can advise as to what lubricant may be more suited to your application. Some will easily provide 6 months of protection. While some locks will unhappily react with certain lubricants.

Alignment

Of course, you will need to check the operation of the door in both the open and closed positions. If the operation is stiffer when the door is closed, then there is a fault. It could be that the door is misaligned. This is most often caused by the door warping or the hinges wearing allowing the door to drop. Regardless, it is cheaper to get the door fixed before it totally locks you out. Organise a regular maintenance check with your Master Locksmith.

Your locksmith can: Check worn keys, check for worn pins, lubricate lock cylinders, lubricate lock mechanisms and latches, lubricate hinges, adjust door closers, check door misalignment, check worn hinges, check strike plates and pockets, check for loose screws, check handle adjustment and springs. Then they can do the repairs for you when you give the go-ahead. In fact your Master Locksmiths is a really handy person to have available.



Fraser Burns is a member of the New Zealand Branch of the Master Locksmiths Association of Australasia Ltd.
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Understanding Managed Video Services

Six ways businesses can use managed video for security and operations improvement

By Jay Huhn, CTO, ADT Security Services

When businesses are closed and no employees are there, video guard tours can allow for remote checks of the premises.

Outsourcing can dramatically lower costs, even while improving service.

That's why outsourcing of key corporate departments is gaining momentum with many large and small organisations. IT, human resources, legal, accounting and other functions are now being handled by outside providers

These providers specialise in supplying equal or superior service, typically at a lower cost than an organisation can provide internally.

A recent survey of top chief executive officers by the consulting firm PricewaterhouseCoopers showed that nearly 70 percent had or were planning to outsource a business process or function in the past or coming 12 months.

Outsourcing provides organisations with a menu of services to select from, as well as tailoring the service level to their unique need. The chosen services can then be provided at a fixed fee.



When businesses are closed and no employees are there, video guard tours can allow for remote checks of the premises

Outsourcing gives organisations the option of securing vital services as needed without the need to incur excessive overhead or, where systems are involved, without the requirement of a capital investment. Outsourcing provides organisations with a menu of services to select from, as well as tailoring the service level to their unique need. The chosen services can then be provided at a fixed fee.

This trend is now moving into the physical security sphere, where it continues to grow in popularity. Recently organisations with a need to protect a single door, as well as those needing to protect a large enterprise, have begun outsourcing access control services.

In most cases these end users, while deeply concerned about security, don't install, monitor or maintain the system themselves. Managing the functional aspects of the system is a natural extension.

With a managed access control solution, the end user gets a system that

requires minimal time commitment from its employees. The service provider installs all card readers and control panels. The system servers are housed, maintained and administered by the service provider. All data entry, including cardholder additions, deletions and edits, as well as access schedule definitions are managed by the service provider, who can then also monitor and respond to system events and alarms. The end user receives customised reports on a daily, weekly or monthly basis.

Within this managed services scenario, vendors generally can provide customers with robust system capabilities that may have been out of reach with a purchased platform.

Now that same concept is coming to video services. Managed video services use interactive video and optional audio to interact with a customer's facility, staff and customers every day, often in real time. In a managed video services environment, the service

provider creates and then maintains the infrastructure - the cameras, servers, software and other equipment - needed to supply a wide range of service options for the customer. The end user's business efficiency is enhanced by the monitoring and reporting capabilities provided by the managed services vendor.

Managed video services can reduce a customer's total cost of ownership as compared to the outright system purchase and operation model. The need for the end user to have employees to operate and maintain the equipment can be significantly reduced and may even be completely eliminated. The vendor can also be contracted to provide regular equipment and software updates. The customer has tremendous flexibility to add or subtract cameras and services as needs change. Those changes may be temporary, such as a government contract requiring additional security, or long term due to a business expansion. As with the access services, managed video services has appeal for small, single-site businesses to large multinational corporations.

Customers employing managed video services can look to increase safety, improve processes, tighten operations

and reduce manpower with a lower initial capital investment. Other benefits may include reduced liability, insurance costs, employee and customer theft and false alarms.

The scope of available video services is growing as customers and vendors identify new needs and opportunities. Here is a look at six of the managed video services currently available.

1. **Video Verification** - When a burglar alarm is received, the vendor's trained operators use cameras to remotely view the customer's facility indoors or outdoors to determine if the event warrants calling first responders or is a non-critical false positive. This service helps reduce the need for security guards. Additionally, it can help reduce costly fines now assessed by many municipalities for false alarms.
2. **Video Guard Tour** - At scheduled times, vendor operators use cameras to "tour" a customer's facility, both interior and exterior, looking for open doors, lights left on and other suspicious activities. Upon suspicion of certain activities, the operators

notify the appropriate party. Guard requirements can be effectively reduced and in certain situations eliminated entirely.

3. **Video Escort** - Employees can phone the vendor's monitoring center and request to have an operator use the video system to observe them between their car in the parking lot and the facility entrance, especially at opening and closing times. This is ideal for high-risk locations or where employees handle large amounts of cash or other high-value inventory.
4. **Unattended Delivery** - Designed for use by retailers, this service allows an operator to monitor the delivery of merchandise after regular store hours, eliminating the need for a security guard or other employee to be present. When he arrives, a delivery driver uses secure methods to enter the facility and to indicate a delivery is in progress. Select portions of the burglar alarm system are disarmed. The operator, when alerted to the event, views live video from pre-defined camera views to observe the driver during

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Connecting the cables is the easy part of an IT study for managed video; the hard part will be looking at who handles patches and security of the devices, whether there will be enough bandwidth, and if the network design is suitable for managed video

across the network and what changes are necessary to support the solution.

Remote Access - If the solution requires connectivity back to the vendor for the delivery of services, what will be implemented to eliminate potential risks to the network?

The final step is identifying the best provider of managed video services and the decision often should be based upon experience, IT expertise and related network certifications. Not all integrators have the capabilities to provide managed video services. It takes a vendor with the ability to speak fluently with both the physical security staff and the IT department. It is not enough to have a staff member or two that has completed a few online tutorials on network connectivity; a vendor should have staff members that have industry recognized network certification.

Finally, and although it is not an IT issue, your vendor may need redundant monitoring centers, especially if your video security is highly critical. Additionally, any vendor should be able to explain service choices, costs and provide analysis about the return on investment. By using managed video services many small-to mid-sized organizations can afford the consistent level of security they need or would like to achieve. Larger organizations can benefit particularly where it may be difficult to staff multiple remote locations. And as we discussed in the first part of this series, these managed video services can also be used to enhance existing in-house security guards.

the delivery. If suspicious activity is observed, the operator will follow the instructions provided by the customer. The advantages include reduced overtime for store employees staying to oversee late night deliveries, the ability for a store manager to manage instead of supervising a loading dock and increased sales due to new merchandise being available at the start of the business day.

5. Video Audits - This service takes video to a new level, allowing trained operators to view both live and recorded video and associate it with specific alarm events, procedures and policies. Reports, complete with attached video and still images, summarize a location's performance on a pass-fail basis.

6. Video Assist - Should a customer's employee notice a suspicious person in a monitored facility, he or she can push a hidden button and connect to the burglar alarm panel, notifying the vendor's operators at the central monitoring station. The operator is presented with appropriate views of the site and an audio connection is established. The operator can then interact with the employee so that the suspicious person becomes aware that his activities are being monitored. The operator can then take appropriate action up to and including dispatching law enforcement. This service can be helpful to convenience stores, gas

stations and other retail facilities that are open late at night and are often staffed by a single employee.

When you are considering implementing managed video services, it's smart for the physical security team to involve people from the corporate IT department. After all, it is "their" network that will transmit the video data, and when you're shopping for the right solution, IT team members can help a security director choose the equipment that will be most compatible with the corporate network.

For instance, if the network generally runs on Cisco equipment, they might be most comfortable with a Cisco-friendly solution for managed video services.

As you go down the path of managed video, there are a few other considerations that your IT team will explore before moving forward, including:

Network Design - IT needs to know that the class of the equipment is appropriate and that any desired redundancies to meet the network's service levels are specified.

Device Security - Expect to answer these three questions: Are the devices, applications and services being deployed secure? Will they provide necessary protection for the company's data and not introduce unnecessary risks? How will they be patched to prevent new vulnerabilities?

Network Impact - Video solutions can require a lot of bandwidth. IT will want to know how much data will be moving



Jay Hauhn is the chief technical officer for ADT Security Services in North America



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Physical Access Control Market: Same Customer Value Equation, New Dynamics

By Brad Jarvis, Vice-President, Product Marketing HID Global

The physical access control market has long been characterized by what HID Global has called the “customer value equation” -- a balancing act between cost, security and convenience that influences customer buying criteria and decision-making tradeoffs. Validated by a recent AVISIAN research study, this “balancing act” will continue over the coming years.

However, there are new market dynamics that influence and change the interrelationship between the customer value equation factors, and new areas of consideration that present trade-offs with potentially compelling advantages. Essentially, the customer value equation remains the same, with new underlying dynamics.

At the heart of the data supporting these findings is the 2010 AVISIAN

Physical Access Control Market Research Study. Additionally, HID Global hosted an industry focus group of long-time integrators and senior consultants to capture real-world examples of what industry veterans find important. Finally, our findings also were informed by the 2009 IMS PAC Research study, which provided additional insights.

According to the research, the top five dynamics influencing the physical access control market include:

- Increased government influence in both the public and private sector;
- New technologies and accelerated adoption rates, including the move to contactless technologies;
- The rapid adoption of multi-application smart cards;
- Growing importance of security-level requirements;
- Cost of ownership, and ability to invest in future-proofed solutions.

While not new, these dynamics are significantly changing the customer value equation, with key market-specific implications. Following is a count-down of the top five drivers.

Driver #5:

Increased Government Influence

One of HID Global’s focus group participants echoed the sentiments of many when he said he believed government-driven standards will influence our industry more in the next three years than they have in the last

three decades. Government initiatives are extending beyond the public sector to drive private-sector security implementations like never before.

Many participants believed that broader government reach into the private sector will become more prevalent and cause organizations to increase their focus on security. They also indicated that, while security previously was a reasonable spend and not code-driven, government now is targeting specific industries (i.e. healthcare, food processing, water and other public utilities) to tighten privacy standards and plans, and is even mandating secure-compound directives.

We may see this trend impact pharmaceuticals and education, too. It’s important to note that, even though the civilian infrastructure is mostly under private-sector control, the government is exerting an enormous influence in this area on physical access initiatives.

Driver # 4:

New Technologies, Faster Adoption Rates

The migration to new technology, including IP connectivity, has significant implications. According to the IMS study, IP-enabled controller revenues are expected to surpass those of serial controllers and account for 42.7% of the market by 2013. Driving this trend are low installation costs, reduced cabling, the desire for intelligent readers at the door, and demand for increased functionality and application convergence.



By Brad Jarvis,
Vice-President, Product Marketing
HID Global

The AVISIAN research identified three reader technologies that users value most highly. The first was upgradeable readers and credentials, including the ability to download reader/credential security upgrades to proactively manage threats (viewed as highly desirable by 79% of the respondents). The second most valued technology was upgradeable, programmable readers that would simultaneously support three or more card technologies (viewed as important by 71% of the respondents). The third most highly valued technology was expanded programming and configuration options, including a universal programmer and reader configuration tool for controlling credential formats and securities through a supplier licensing agreement (desired by nearly two-thirds of respondents).

The AVISIAN study respondents also said they would like a credential or identity generator to assist in defining and securing card data (this was desired by almost 60% of the respondents) and the ability to have additional credential form factors such as phones, keyfobs, stickers or tokens. Over 70% of the end user community and 80% of industry respondents felt the latter capability was important, and both groups acknowledged inadequate user options today.

Even as users wait for these technologies, smart card use continues to grow – with a 13.5% CAGR from 2009-2013 according to IMS research, compared to a 2.4% CAGR for proximity technology in the same period. IMS believes the number of smart card installations will approach that of proximity installations by 2013. As mentioned earlier, one of the biggest growth drivers is the desire to move to a single-card or credential with that can store more information for additional applications and/or security.

Driver #3: Multiple Applications on a Single Card

To highlight the importance of multi-application cards in the market, one focus group respondent pointed out that a major university customer will not consider any purchase unless it enables them to add more applications to existing physical access systems and credentials, or extend the use of existing applications.

In a similar vein, 64% of respondents said they felt that it was highly or somewhat desirable to store several identity formats and applications

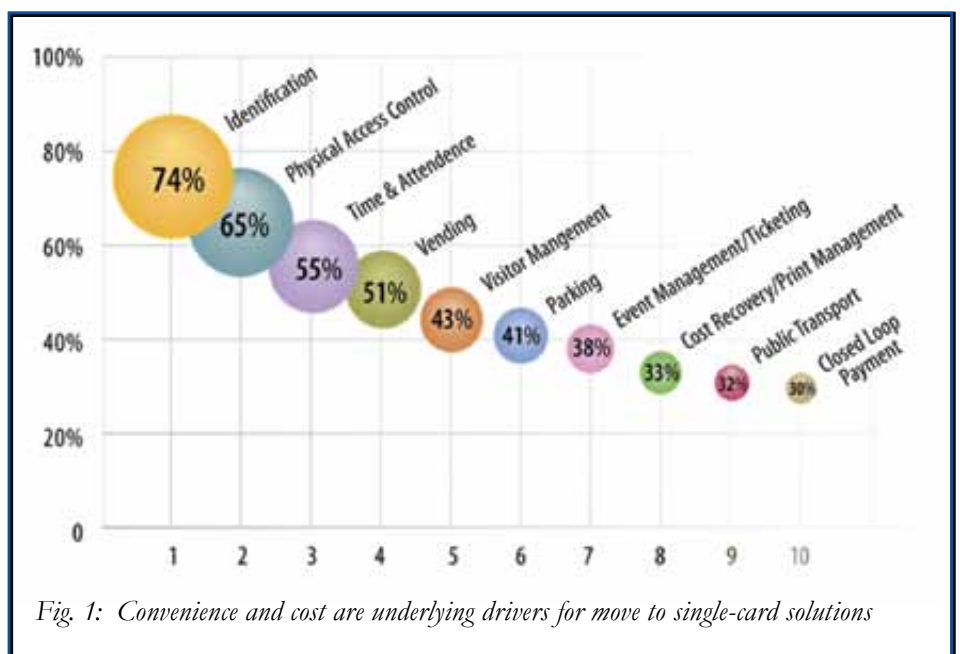


Fig. 1: Convenience and cost are underlying drivers for move to single-card solutions

on a single credential, including identification, physical access control, time and attendance, vending, and visitor management. Also ranked as desirable applications were parking, event management or ticketing (particularly in campus environments), as well as cost recovery applications such as print management, public transport and closed-loop payment systems (see Fig. 1).

Higher education and the health care sector are now moving to these multiple-application environments, and corporations are beginning to explore them, too. One example of a corporate adoption is US Bank's recently move to a single employee card that could be used for traditional magnetic stripe purchases, contactless payment transactions and facility access. The selected technology combined a Visa® PayWave point-of-sale (POS) contactless-payment application and HID Global's iCLASS® smart card technology for physical access control and security. The first US card issuer to pilot the PayID program, US Bank

was recognized with the 2010 Paybefore award for Most Innovative Program for this deployment.

Driver #2: Increased Card-to-Reader Security

Today's cards carry more information that must be protected, they are used for more applications, they require more privacy protections, and they must be able to validate and secure identities. This has created demand for multiple layers of card security including two-factor authentication to validate identity, and biometric templates that must be stored on the card. Over 85% of the user community felt that this was a very important factor and over one-third felt that they did not have adequate support in this area from the vendor community (which agreed). (See Fig. 2).

The feature that respondents said they wanted most is hardware that updates the card's security technology if the current technology were to be hacked. This was deemed important by 91% of user respondents, and over 52% were dissatisfied with today's options. The second most desired feature was software upgrades to address new security threats as they emerge, with 92% of respondents saying this was important and almost 40% saying they were dissatisfied in this area.

Driver #1: TCO and Future-Proofed Solutions

Total Cost of Ownership is the number 1 driver influencing the physical access control market according to the AVISIAN research. Increasingly, customers are looking beyond installation costs to base purchase decisions on total

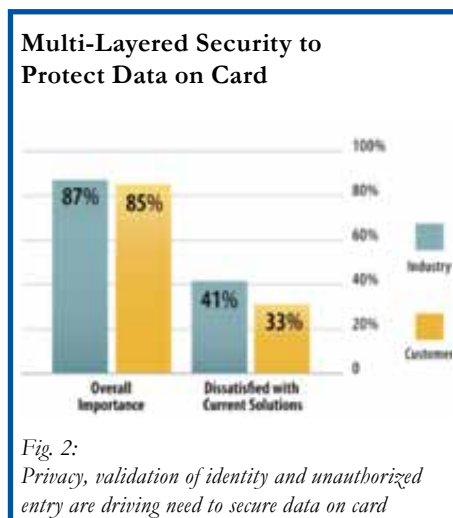


Fig. 2: Privacy, validation of identity and unauthorized entry are driving need to secure data on card

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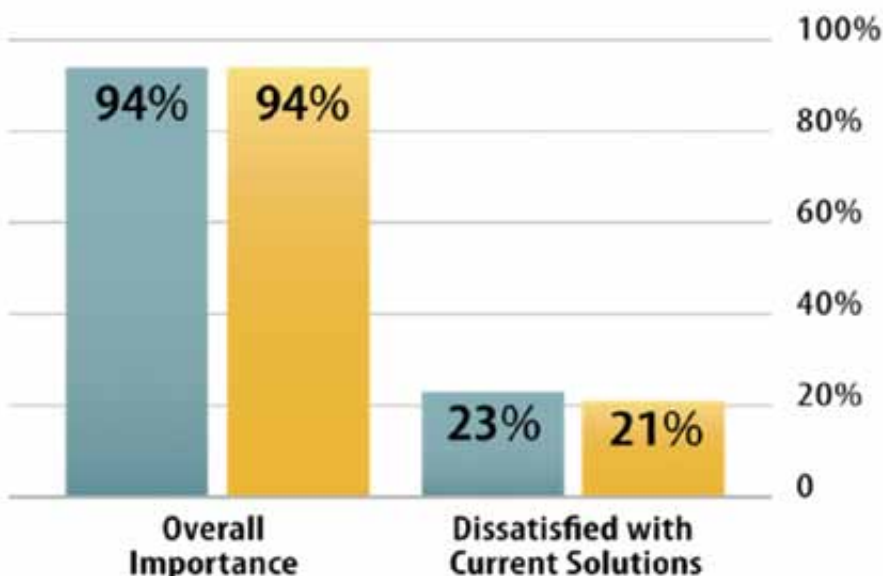


Fig. 3: There is a disconnect between scalability requirements and what the industry is delivering in this area

cost of ownership or operation. There are several key lifecycle management issues to consider, including the equipment's expected useful life, how it will be depreciated over time, and the technology migration path.

The economy is obviously forcing more justification of expenditures, and companies also need to factor maintenance, upgrades and ROI into their cost calculations. Meanwhile, product lifecycles are shrinking, as illustrated by the accelerated introduction of high-frequency technologies and associated government standards and protocol requirements. Increasingly, customers must leverage existing investments (per Fig. 3, 90% of respondents said this was important, and 50% were dissatisfied in this area). Respondents also said they wanted interoperability or ease of the migration, portability of identities to new security models, and scalable solutions.

Sustainability

One last future-proofing consideration is sustainability, as the industry begins exploring how to drive new building automation solutions for energy management. Although today's implementations are limited, we get a sense of what's coming by looking at early industry influencers, emerging standards, and signs that cost barriers are beginning to come down.

The government's ICMA Green

Task Force is already looking at how to "green" factories and institute "eco labeling" at the manufacturer level. There is growing discussion around energy management via access control and how to integrate the two. We also can learn by studying other industries and how they have adopted and leveraged Leadership in Energy and Environmental Design (LEED) standards.

Looking Ahead: Balancing the Equation

Despite important new market dynamics, the three core elements of the customer value equation - cost, security and convenience - continue to fuel drivers for change in the physical access control space as increased convenience, lower total cost of ownership and achieving higher levels of security continue to dictate market development. At the same time, new dynamics related to government influence, technology trends, security requirements, single-card application convergence and TCO are creating new opportunities to better serve customers' very clear and specific needs, as we help them balance their value equation for physical access control solutions.





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Tracking offenders using GPS

In October, Community Probation Services began a trial of GPS (Global Positioning System) technology to test its potential for monitoring offenders serving community-based sentences.

CPS General Manager Katrina Casey says the trial will test the functionality, accuracy and usefulness of GPS monitoring in a wide range of geographical situations and environments.

“The trial will give us more information on whether GPS technology can help us achieve higher rates of offender compliance and reduce the likelihood of re-offending,” she says.

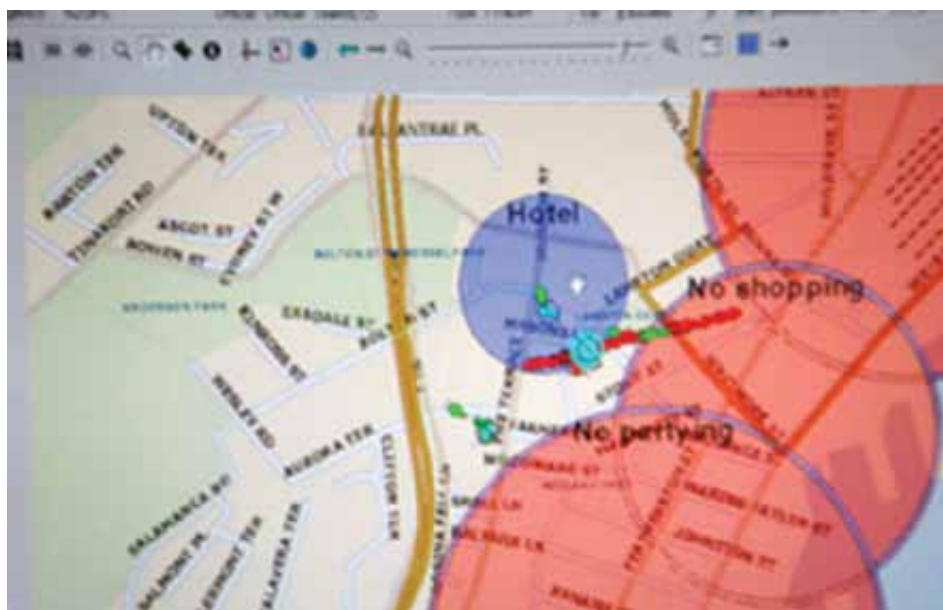
The trial will not initially involve offenders, but will use CPS staff volunteers in different locations around New Zealand to replicate conditions of offender risk management and different sentence types.

“If the trial using staff is a success, we’ll extend it to monitor a small number



An example of a GPS monitoring anklet. The anklet is similar to the anklets Corrections already uses for electronic monitoring of some community-based offenders

of carefully selected offenders in the first half of 2011,” says Katrina.



A computer screen showing the kind of information supplied by a GPS system. The blue circle indicates where an offender must be during their curfew times. The red circles show where an offender shouldn't be

A computer screen showing the kind of information supplied by a GPS system. The blue circle indicates where an offender must be during their curfew times. The red circles show where an offender shouldn't be.

The trial will test how well GPS can track people to ensure they stay in restricted areas, such as their home. It will also explore how GPS technology can create ‘exclusion zones’ to send an alarm if an offender tries to go somewhere they shouldn't, such as a certain part of town, a school or park, or a victim's house.

The trial will test three different types of monitoring equipment and will allow CPS to compare the merits of each. The technology being tested includes a single anklet device the offender wears and a two-piece device incorporating a transmitter on the offender's ankle and a communication unit on the offender's belt. The communication unit has a screen and allows for interactive text and voice communications.

Govt confirms changes for Taxi Safety

The government has confirmed that all taxis operating in our larger centres will be fitted with security cameras from 1 August this year. This move is designed to enhance the safety of both taxi drivers and their passengers.

The Land Transport Rule: Operator Licensing Amendment (No 2) 2010 will also ensure taxi drivers get around-the-clock telecommunications support.

“Sadly, the safety situation for taxi drivers has changed in recent times and these requirements are now a necessity,” says Transport Minister Steven Joyce.

Since December 2008, there have been a number of serious attacks on taxi drivers. Two of these resulted in deaths. The Operator Licensing Rule will set requirements for the fitting and type

of security camera that can be used. It also includes limits on access to camera images to protect passenger privacy.

Changes to provide for improved telecommunications systems mean each driver will have a direct link with the taxi company, and is able to alert them in an emergency.

“We have worked hard to put this in place quickly. While there is no measure that can make drivers entirely safe, evidence and overseas experience shows these measures can seriously reduce the risks.”

Taxis operating in towns that are currently serviced by more than 30 taxis will be subject to the new requirements. This has changed from 20, which was originally consulted on, and means that taxis in Blenheim and Timaru will not be



Minister for Transport Steven Joyce



required to comply as would have been the case previously.

The amendment Rule comes into force on 1 February 2011. Approved Taxi Organisations have until 1 August 2011 to have the required systems installed and operating in their taxis. Taxis that already have a security camera fitted when the Rule takes effect will be allowed to operate with that system until 1 February 2012. By that date, they must either have their existing system approved by the NZ Transport Agency or replaced with one that has been approved.

Information on Land Transport Rule: Operator Licensing Amendment (No 2) 2010 is available on the NZ Transport Agency website: <http://www.nzta.govt.nz/resources/rules/operator-licensing-2007-index.html>.

Mt Eden/ACRP contract manager announced

Global services management company Serco has been selected to manage the Mt Eden/Auckland Central Remand Prison from this year, Corrections Minister Judith Collins announced today.

Serco, a British company with operations in Europe, the Middle-East, Asia-Pacific and North America, was one of three companies that sought the contract through a Request for Proposal process.

Following evaluation and negotiations phase, the Department of Corrections recommended to the Minister of Corrections that Serco be selected as the successful contract partner. This was endorsed by Cabinet.

"This Government is committed to a world-class Corrections system in New Zealand. To achieve that, we must have access to world-class innovation and expertise," Ms Collins said.

"The appointment of Serco as the contract manager for Mt Eden/ACRP will bring in new ideas and international best practice which will benefit the entire corrections sector.

"Serco has a strong track record in managing prisons. I'm confident that the company will bring the high standards of professionalism, safety, rehabilitation and security expected by the Government to Mt Eden/ACRP."

ACRP was successfully contracted out under a National Government from 2000-2005 before the law was changed by the Labour Government to prohibit private management of prisons.

In 2009 the Government passed the Corrections (Contract Management of Prisons) Amendment Act 2009, which allowed private sector organisations to tender for contracts to manage prisons, on a case-by-case basis.

A number of the innovations

introduced by the former contract manager were adopted by Corrections for use in public prisons and are still being used today.

The prison will operate within the current Corrections framework. All prisoners will remain the responsibility of the Chief Executive of the Department of Corrections.

The contract manager will have to comply with all relevant New Zealand legislation and international obligations. Prisoners will still have the right to raise issues of concern with the Office of the Ombudsmen or Corrections Chief Executive, as they would in a publicly managed prison.

A contract is intended to be signed by 31 January 2011 and the site will be fully handed over to Serco by August 2011. The contract will be for six years, with the option to extend for a further four years. Probity assurance has been provided by Audit New Zealand.

Defence clothing contract 'best possible value'

Auckland apparel company Pacific Brands Holdings (NZ) Ltd has won a new five-year contract to supply clothing and personnel support items to the New Zealand Defence Force.

"This is the best possible value for money for the Defence Force and the taxpayer," Defence Minister Wayne Mapp said, announcing the selection of the company, which trades as Yakka Apparel Solutions (YASL).

"Ensuring Defence Force people have the right equipment to get the job done wherever they are is a top priority. "YASL has offered innovations, especially around the use of technology, and at the same time provided significant savings.

"The Defence Force currently spends around \$22 million per year on clothing

and personnel support items for its people. The new contract can provide immediate savings of around a million dollars per year," he said.

In an open tender process the Defence Force assessed companies on value for money and a range of non-price attributes. They included experience in military clothing manufacture and research and development capabilities.

YASL's tender relies largely on the same range of sources, suppliers and services as under their previous contract, with a number of enhancements in key areas.

The clothing contract is for a term of five years with two, two-year rights of renewal. The total estimated value of the contract is around \$200 million.

"We are committed to promoting a healthy Defence industry in New Zealand by buying New Zealand-made items where it is prudent to do so. This choice emphasises that commitment," the Minister said.

NZ designates three groups as terrorist entities

New Zealand has designated a further three international terrorist groups under the Terrorism Suppression Act 2002, Prime Minister John Key announced.

The groups are: the Al Aqsa Martyrs Brigades, the National Liberation Army (ELN) of Colombia and Harakat-ul Jihad al Islami - Bangladesh.

"All three entities have committed various terrorist acts, including the indiscriminate killing of civilians," says Mr Key.

"As a result of the designations, any assets held by the groups and found in New Zealand either now or in the future will be frozen. It will also be a criminal offence to deal with their property or make property or financial services available to them.



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“Forms of support, such as fundraising and recruiting or harbouring terrorists, are criminal offences in New Zealand, regardless of whether a group is designated as a terrorist entity or not.

“These designations of non-UN listed entities are a counter-terrorism measure in line with our international obligations to suppress terrorist activities. They are not a response to domestic terrorist threats in New Zealand and nor are they influenced by New Zealand’s relationship with other countries. However, they do form part of our Government’s support against terrorism activities,” says Mr Key.

“Further, these designations help implement our international obligations under the United Nations Security Council Resolution 1373, which is aimed at preventing terrorist activities.”

To date New Zealand has designated under UN Security Council Resolution 1267 nearly 500 terrorist groups and individuals listed by the United Nations, and 11 other terrorist entities not listed by the UN. They are Al-Shabaab (Somalia), ETA (Spain), FARC (Colombia), PKK (Turkey), Indian Mujahideen, Palestinian Islamic Jihad, Izz al-Din al-Qassam Brigades, the Real Irish Republican Army, the Continuity Irish Republican Army, the New People’s Army/Communist Party of the Philippines, and Hizbollah’s military wing.

Dumb phones can be attacked too

Much of the discussion of security threats to mobile phones revolves around smartphones, but researchers have found that less advanced “feature phones,” still used by the majority of people around the world, also are vulnerable to attack.

Feature phones have Web browsing, MP3 players, and other programs standard voice-only phones lack, but they have less computing power and feature integration than smartphones.

Because security research on feature phones has been eclipsed by research on popular smartphones like Android and iPhone, mobile researcher Collin Mulliner said he decided to turn his attention to the lower-end phones. After all, so many people are still using them. (Mulliner and another researcher demonstrated an SMS-type attack on my iPhone at the BlackHat security conference in 2009).

Mulliner, a PhD student at Technical University Berlin, and one of his master’s degree students, Nico Golde, discovered a way to knock people using feature phones off the mobile network and even crash the phones entirely. They did this by writing special software to send SMS-type messages to the phone that used special characters, which caused the device to disconnect from the network, Mulliner told CNET today. In some cases, the phone would just shut down after several such messages were sent, he said.

The code needs to be written specifically to target the individual mobile phone brands and Mulliner found that it worked on feature phones from all the major manufacturers. The researchers contacted Nokia, Sony Ericsson and Motorola, but are still trying to reach Samsung and LG, he said.

So far, the manufacturers are taking the matter seriously, according to Mulliner. For instance, Nokia said they would fix the problem, which is not evident in their brand new feature phones, he said.

The researchers demonstrated an attack during a presentation entitled

“SMS-o-Death” given a few weeks ago at the Chaos Communication Congress, a hacker conference in Berlin. They did not publish the code to conduct these attacks. Attackers, if they were able to write attack code from scratch on their own, could send the malicious code as an SMS directly to a phone number, or cut and paste it into a Web form of an online-based SMS sending service, according to Mulliner.

Speculating on possible motivations for wanting to attack phones in this way, Mulliner said someone could target a specific executive or government official for financial or political purposes or launch a large-scale attack on a multitude of phones to try to blackmail or harm a carrier’s business.

The easiest way to solve the problem would be for manufacturers to produce updates for the phones, but because there is no automatic update process as with smartphones, they would have to notify customers to download an update from the manufacturer website, Mulliner said.

Also, carriers could send an alert to customers about the availability of an update and could even update the phone software remotely for the phones that support that, he said. Meanwhile, operators could filter out dangerous messages before they reach the phone, if they monitored for the specific attack code as identified by the researchers for each brand of phone.

“Basically, you can’t do anything about it if you have a vulnerable phone,” Mulliner said, when asked what individuals can do to protect themselves. “People should contact the manufacturer to ask for an update and ask the operator to protect them by filtering out the messages.”

UK prison officers in urgent need for concealable body armour

Concealable body armour should be made available to prison officers immediately, says Robert Kaiser, CEO of UK based personal protective equipment consultancy PPSS.

Recent incidents have highlighted once again the urgent need for concealable and lightweight body armour within the prison service.

One prison officer who asked not to be named told the BBC: "At least 50% of prison officers have been assaulted at least once, several officers, several times."

The last two months alone several reported riots and violent attacks on prison officers have been recorded, which include major incidents at HMYOI Cookham Wood on 27th December, HMP Ford on 1st January, HMP Littlehey on 10th January, to name but a few.

Unfortunately this was not a new occurrence, or something that should surprise us too much. Major violent incidents in 2010, which saw prison officers seriously injured at Frankland High Security Prison in Durham and HMP Leeds last year, are still fresh on our mind.

Robert Kaiser states: "As much as we would like to, we just cannot change the aggressive behaviour of some prisoners."

"A prisoner on the receiving end of a disciplinary can overreact to anything the officer says or does. There is also no doubt that a prisoner consuming any kind of class A drugs, illegal substance or self made alcohol can become hostile and violent within a split of a second."

"But how can it be that our police officers who are often required to face serious criminals for only a very few minutes are required to wear stab/ballistic vests, but those having to face the same criminals for potentially years to come are not being issued with any form of body armour?"

Worrying staffing levels, prisoner's easy access to alcohol and drugs, a serious lack

of respect and cultural issues will continue to contribute to the risk of escalation in our country's prisons.

Colin Moses, Chairman of the Prison Officer Association (POA): "Violent action can erupt at any time, and the severity of the violence and subsequent injuries to our officers is increasing."

Colin Moses continues: "We fully appreciate that prisoners should be treated fairly and we are more than happy to ensure that all of our actions comply with human rights, but we are also determined to ensure the personal safety of our members. Would anyone expect their partner, child or friend to come home from work with a horrific injury?"

Robert Kaiser, a globally respected expert on body armour and stab vests states: "For me it is simply common sense that prison officers should be protected from kicks, blows and punches as well as needles and razor blades. Concealable body armour can and will one day save one of our prison officer's life."

Recent changes within the law such as the Corporate Manslaughter and Corporate Homicide Act 2007 are going to put immense pressure on all key decision makers within the prison world.

If prison officers are not permitted to purchase body armour or if the British Government is not taking all necessary actions to ensure the personal safety of their prison officers, we could potentially look at liable cases within months from now.

"It is a legal, but above all, a moral obligation. We have to protect those who serve and risk their lives every day they go to work." Robert Kaiser continues.



The argument that body armour can be perceived as confrontational or aggressive and lead to the escalation of a hostile situation might be true, but should we not pass this responsibility on to body armour manufacturers, urging them to create 100% concealable body armour?

Robert Kaiser answers this question: "Yes, I would completely agree with this. We have already been speaking and meeting with the Prison Officers Association (POA) and made a real impression. Many professionals are just not aware how thin and light body armour can be."

Every employee has the right to be equipped appropriately, and this must include prison officers. They need our protection and help.



For more information about body armour or other types of protective equipment, then please feel free to contact PPSS on +44 (0) 845 5193 953, email info@ppss-group.com or visit www.ppss-group.com

In Geutebrück's new GStore everyone's a winner

Geutebrück, the German video system manufacturer has hit on an idea for improving the functionality of its systems by adopting and adapting what mobile device manufacturers are doing. It has opened an online store to sell certificated software applications or 'apps' which add value for its system users. The new GStore is set to incentivise innovation by enabling outside software developers to fully exploit their developments by marketing proven software solutions to Geutebrück system-users worldwide.

The launch of Geutebrück's GStore opens a whole new world of opportunity to CCTV users and software developers alike. From now on any external developer who produces a piece of software to add functionality to a Geutebrück CCTV system also has the option of marketing it through the GStore as a certificated product under the Geutebrück banner.



This enables him to reach a large international market and take his share of the income generated.

In the GStore end-users will be able to buy software solutions for a wide variety of specialist problems – off-the-shelf customisations if you will. These include software solutions which have been developed to solve specific problems which occur in particular industries or regions or associated with particular activities, as well as niche products devised by external developers simply because they think there will be a demand for them among Geutebrück system users.

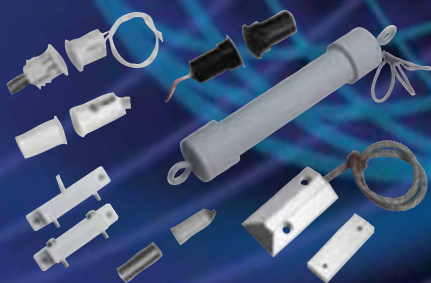
The GStore is great for developers because it gives them access to Geutebrück sales and marketing channels to expand their markets; it allows them to use Geutebrück as a reference to promote their project work, and at the same time it protects their solution with a rigorous licensing system. Meanwhile the GStore is great for end-users because it expands the functionality of Geutebrück CCTV systems and increases the level of integration. And of course it's good for Geutebrück too because it provides incentives for external developers to produce solutions which improve the customer experience and increase customer satisfaction. A real win, win, win situation.

The GStore concept is made possible by the fact that Geutebrück has always had an open system policy and provides customers and their outside developers with free software development kits

and free technical assistance. There are consequently lots of developers across the world who have experience in producing useful software features and functions for Geutebrück systems.

The first product available at this online app store is G WalknView, a mobile access solution for iPhone and iPad. It was produced by MediaLAN, a software developer in Dresden in response to several project requests. The developer believes there is significant market potential for his product and selling it through Geutebrück sales and marketing channels and under the Geutebrück brand, will enable it to reach the maximum number of potential purchasers. The certification process was not onerous. He had already agreed the functionality of the solution with Geutebrück and just needed to provide documentation outlining customer benefits, function(s), features, and a technical overview.

G WalknView is a streaming application enabling live streams and recorded images from Geutebrück's GeViScope and re_porter digital video monitoring systems to be displayed on a network-connected mobile iPhone or iPad. With authentication protection against unauthorised use, it streams video straight into the built-in Safari browser and allows users to quickly check out the current situation for themselves. Its stream adjustments ensure fluent video playback if bandwidth is low, and it even supports the remote, touch-screen control of dome or pan & tilt cameras.



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Security Commander™ has arrived



The most powerful Windows management software for Challenger™ is now available from Hills Electronic Security. Security Commander is a highly-scalable multi-site application that can support up to 128 Challenger panels, over 6,000 intelligent doors and 32,000 alarm points.

Security Commander is compatible with Windows 7 and is intelligently based on a SQL database, ideal for easy access to raw data for powerful database replication, information exchange and custom reporting.

One of Security Commander's standout features is its client-server architecture, capable of allowing up to 10 operator workstations to manage the system simultaneously.

Even more exciting news is Security Commander's video integration capabilities with supported GE/UTC DVR's, allowing Challenger alarms and other events to be linked to video footage for improved operator response and easier post-event investigation.

Eager to find out more?

Contact your local Hills Electronic Security branch today for a demo and information about training dates.

Hills
Electronic Security

**Excellence in
Security**

**For all product information visit
www.hillsec.co.nz**

Hillsec heats up with Flir Systems



The new and exciting Flir Systems product range of Thermal Cameras is now available at Hillsec!

Thermal cameras compliment and complete your security camera network by giving you the power to see threats invisible to the naked eye, turning night into day (as seen in the image below).

Thermal security cameras make images from the heat energy that is around us all the time, not from reflected visible light, giving you true 24/7 imaging capability without lights or illuminators.

The cameras are enhanced further by FSM (Flir sensor manger) software which offers complete management of connected thermal cameras. Analytics and radar integration are just some of the benefits of FSM.

For all product information visit your local Hillsec branch.

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Outdoor Kit special



All kits are covered by a
one year warranty
For more information visit
www.crkennedy.co.nz

C.R. Kennedy (NZ) Ltd
Phone: 09 276 3271 or
Email: cctv@crknz.co.nz

Indoor Kit special



All kits are covered by a
one year warranty
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www.crkennedy.co.nz

C.R. Kennedy (NZ) Ltd
Phone: 09 276 3271 or
Email: cctv@crknz.co.nz

Pinetron PDR-XM3004



Features

- H.264 Recording
- 4 Channel DVR
- Various Recording Modes: Motion, Alarm, Schedule, Continues, Dual Recording.
- S.M.A.R.T Network Transfer
- User Friendly GUI (True Color)
- Built-In Multiplexer and Pan/Tilt/Zoom
- Mouse/IR Remote

Specifications

Operating System: Embedded Linux
Compression: H.264
Recording Speed: 25fps 720x576 - 100fps 360x288
Video Input: 4ch-4/8ch-8/16ch-16
Video Output: 1 VGA, 1 Composite, 1 Spot
Alarm input/Output: 4/8/16ch:4/8/16 in - 1 out
Backup & Storage: 1 x USB 2.0, 1 x 500 SATA HDD
Network: RJ 45/Ethernet, LAN, WAN Max.120fps

C.R. Kennedy (NZ) Ltd
Phone: 09 276 3271 or
Email: cctv@crknz.co.nz



BOSCH Zone Technology

Your Security Supply Partner

AXIS Q1755/-E Network Cameras



AXIS Q1755/-E Network Cameras deliver HDTV 1080i or 720p in compliance with the SMPTE 274M and 296M standards regarding resolution, colour fidelity, 16:9 format and full frame rate.

The cameras enable multiple, individually configurable streams in H.264 and Motion JPEG. H.264 greatly optimizes bandwidth and storage without compromising image quality. AXIS Q1755/-E cameras have 10x optical zoom, 12x digital zoom and auto focus.

Installation is made easy with Power over Ethernet (PoE, IEEE 802.3af), which eliminates the need for power cables. The cameras also have an SD/SDHC memory card slot for storing recordings locally. AXIS Q1755/-E cameras offer video motion detection, audio detection, active tampering alarm and the Gatekeeper functionality, which enables the cameras to automatically zoom in when there is activity in the scene, and then zoom out after a preset time interval.

The AXIS Q1755/-E Network Cameras and the AXIS range is available from your Hillsec branch.



For all product information visit
www.hillsec.co.nz

DB Series Audio Handsfree Intercom



Features

- Connect up to 4 additional sub stations
- Chime tone calling
- All call between internal stations
- Connect Electric Door Release with two wires from door station. Requires no extra power supply for door release. An AC operated door strike is required
- Existing doorbell or chime wires can be utilised (disconnect from transformer)
- Internal stations are equipped with Door Release and one function button to turn on entrance light, etc
- Optional call extension sounder

Specifications

Power Source: 16VAC • DA-1DS: approximately 270 g
6 wires, polarised DB-1MD - DB-1SD
From master to furthest sub 100m 100 m 100 m



NATIONAL FIRE & SECURITY LOW VOLTAGE ELECTRONIC SUPPLIER

National Fire & Security Ltd
1/44 Greenpark Rd, Penrose, Auckland
PHONE: (+64) 9 580 1576
E-mail us: sales@nfs.co.nz

JKW-IP Video Intercom over IP adaptor



Features

- Compatible with 32 & 64 bit Operating Systems, Windows XP, Windows Vista, Windows 7
- Identify and communicate with visitors over the internet
- Receive an email notification with photo when a visitor is at the door
- View individuals while automatically recording the video onto your PC
- Easily talk back and forth with visitors while at the computer
- Conveniently unlock the door while online
- View door station on up to 10 PC's and included master station



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